

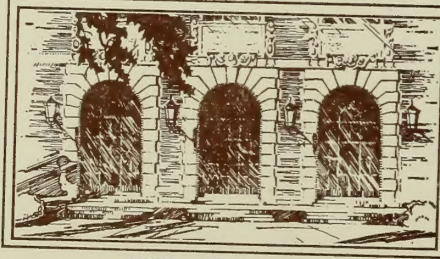
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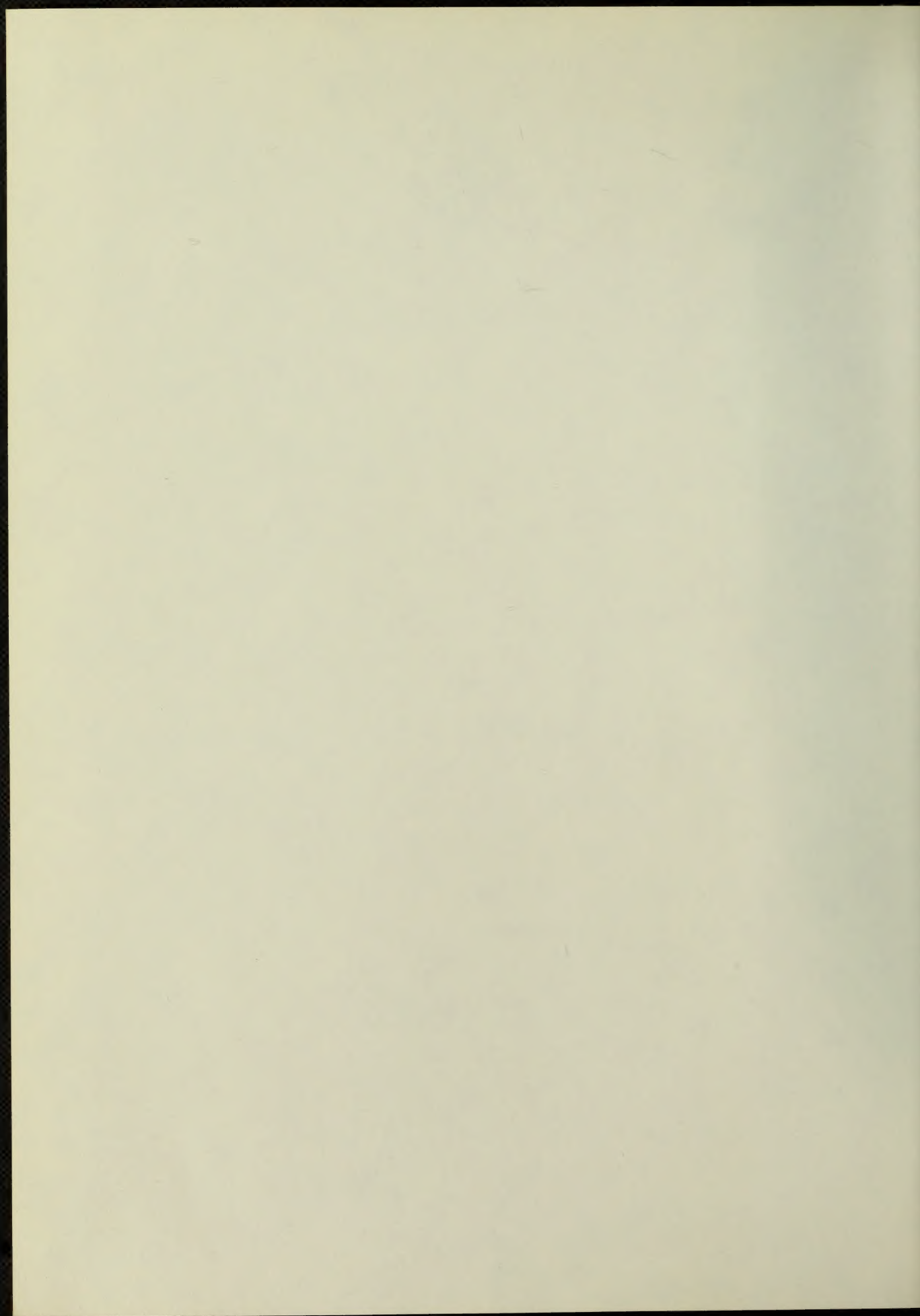
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ENDOCRINOLOGY INDEX

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National Institute of Arthritis,
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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are

numbered consecutively. These numbers are then used in the Author and Subject Indexes to enable the reader to identify references with ease. The complete citation (including index terms) are found but only the first three authors are listed. Foreign titles appear in the original language; these titles have been translated into English in the Subject Section. Following each citation are index terms which have been assigned to describe the contents of the article. Index terms appear in capital letters; some of these are accompanied by subheadings which appear in lower case letters. Asterisks (*) identify the index terms under which articles appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations appearing in the bibliography are listed, followed by citation numbers which correspond to the numbers in the Author Section. The Subject Index is included for the convenience of the reader who wishes to select articles falling in categories of his own conception. For example, one who is interested in protein binding of particular hormone could quickly find whether there were any articles dealing with this subject by determining if there were any citation numbers common to the two headings "protein binding" and the name of the specific hormone.

Author Index

The names of all authors are listed, followed by citation numbers which correspond to the numbers in the Author Section.

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National Institute of Arthritis,
Metabolism, and Digestive Diseases

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

Endocrinology Index was developed with the support of contract PH43-66-480 in 1966-70 to Vanderbilt University under the direction of Grant W. Liddle. The National Institute of Arthritis, Metabolism, and Digestive Diseases is most appreciative of the fine work in originally developing and editing the *Index* provided by Grant W. Liddle and Victoria Ragin Liddle and for their continuing editorial advice in making the *Endocrinology Index* a most important and necessary component of endocrinology literature within the biomedical research community.

The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1975.

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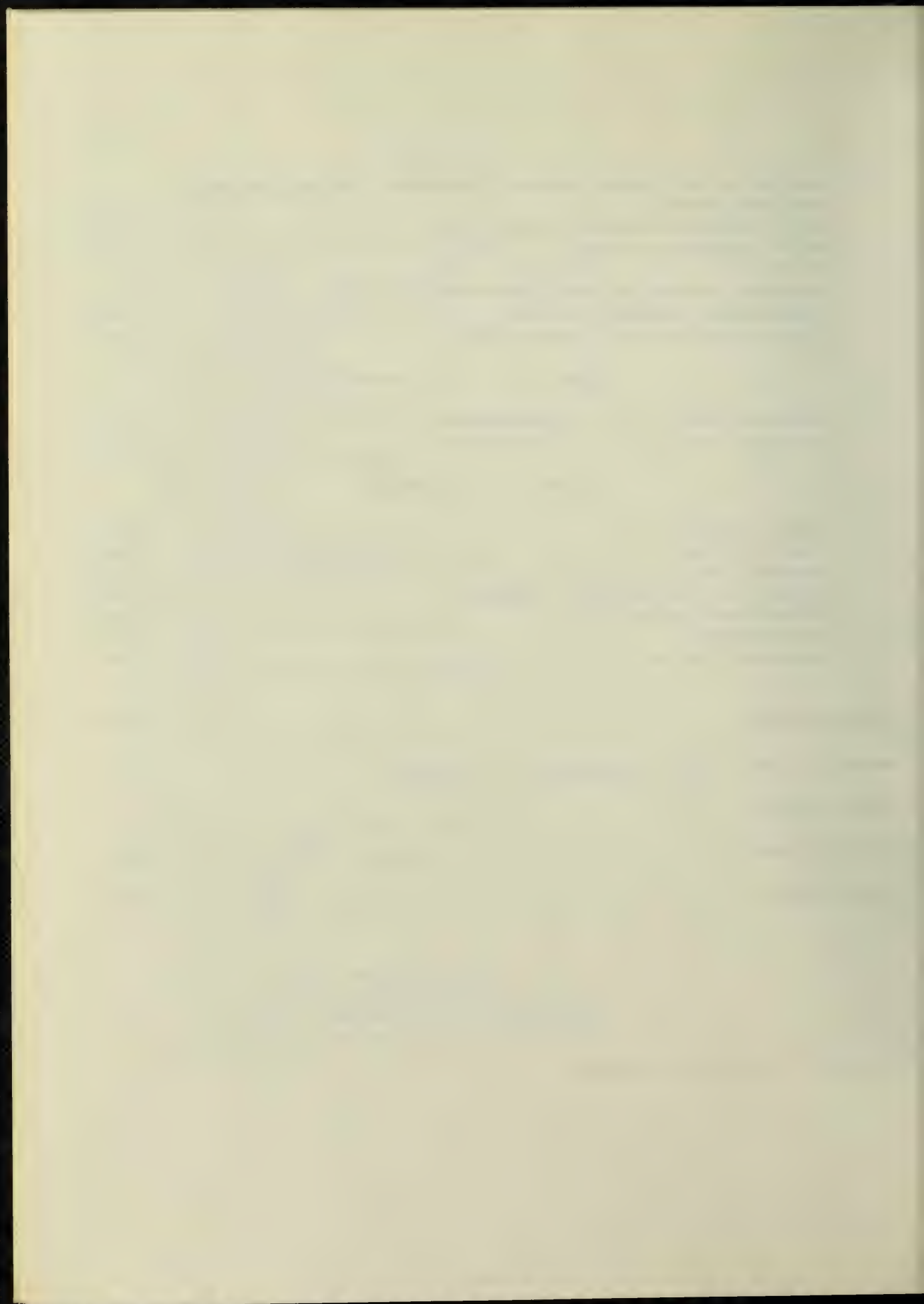
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THYROID

GOITER, ENDEMIC

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ADRENAL

II. Disorders of the Adrenal Glands

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BLOOD

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GONADS

II. Disorders of the Gonads

ARRHENOBLASTOMA

BLOOD

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COMPLICATIONS

[Virilizing tumors of the ovary] Annee *Endocrinol* 25:140-53, 1973 (Fre)

DIAGNOSIS

[Functional tumors of the ovary] Salvati A. *Minerva Ginecol* 24:429-32, Jun-Jul 72 (Ita)

DRUG THERAPY

[1st experiences in the treatment of ovarian tumors with Peptichemio] Natale N, et al. *Minerva Med* 65:1805-10, 2 May 74 (Eng. Abstr.) (Ita)

METABOLISM

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URINE

Steroid metabolism in arrhenoblastoma. Maidman JE, et al. *Obstet Gynecol* 44:333-40, Sep 74

BRENNER TUMOR

COMPLICATIONS

[On the histogenesis, hormonal activity and the malignant potential of Brenner-tumours (author's transl)] Paulussen F, et al. *Geburtshilfe Frauenheilkd* 34:463-7, Jun 74 (Eng. Abstr.) (Ger)

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[Malignant Brenner tumours (author's transl)] Motlik K, et al. *Sb Lek* 76:116-24, May 74 (Eng. Abstr.) (Cze)
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COMPLICATIONS

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PATHOLOGY

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- Yolk sac tumor and alpha-fetoprotein: clinicopathological study of four cases. Ito T, et al.
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- Alpha-fetoprotein as a marker of embryo-specific differentiations in normal and tumor tissues. Abelev GI. *Transplant Rev* 20:3-37, 1974
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Immunofluorescent localization of alpha-fetoprotein synthesis in endodermal sinus tumor (yolk sac tumor). Tellum G, et al.
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[Epidemiology and prevention of testicular tumors] Weissbach L, et al.
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PATHOLOGY

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THERAPY

[Results of the management of 552 malignant tumours of the ovaries (author's transl)] Heldenreich W, et al.
Geburtshilfe Frauenheilkd 34:565-72, Jul 74 (Eng. Abstr.) (Ger)

EUNUCHISM

[Olfacto-genital dysplasia syndrome]
Annee Endocrinol 25:132-9, 1973 (Fre)

COMPLICATIONS

[Olfactogenital dysplasia (Kallmann's syndrome)]

GONADS

Gariépy G, et al.
Union Med Can 103:1396-400, Aug 74 (Eng. Abstr.) (Fre)

DIAGNOSIS

[Olfactogenital dysplasia (Kallmann's syndrome)]
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GRANULOSA CELL TUMOR

COMPLICATIONS

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J Postgrad Med 19:95-8, Apr 73
[A case of Mayer-Rokitansky-Kuester syndrome in combination with a granulosa cell tumor (author's transl)] De Ridder G, et al.
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DIAGNOSIS

[Diagnosis and clinical manifestations of tumors of the granulosa cell tumor type] Pertyński T, et al.
Wiad Lek 27:839-41, 1 May 74 (Eng. Abstr.) (Pol)

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[1st experiences in the treatment of ovarian tumors with Peptichemio] Natale N, et al.
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ENZYMOLGY

[Histochemical evaluation of ovarian tumors and indexes of hormonal activity] Kędzla H, et al.
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IMMUNOLOGY

Estrogen excretion in a case of theca-granulosa cell tumor. Targett CS.
Am J Obstet Gynecol 119:859-61, 15 Jul 74

PATHOLOGY

Estrogen excretion in a case of theca-granulosa cell tumor. Targett CS.
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Harris BH, et al. J Pediatr Surg 9:289-93, Jun 74

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URINE

Estrogen excretion in a case of theca-granulosa cell tumor. Targett CS.
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GONADS

HYPOGONADISM

GYNANDROBLASTOMA

DIAGNOSIS

[Functional tumors of the ovary] Salvati A.
Minerva Ginecol 24:429-32, Jun-Jul 72 (Ita)

PATHOLOGY

Gynandroblastoma of the ovary. Devi NN, et al.
J Indian Med Assoc 62:98-9, 1 Feb 74

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A South African Indian hermaphrodite. Grace HJ, et al.
S Afr Med J 48:1349-50, 9 Jun 74
Dominant lethal study of the antiandrogen alpha, alpha,
alpha-trifluoro-2-methyl-4'-nitro-m-
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methods. Beall JR.
Toxicol Appl Pharmacol 28:303-12, May 74

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Malignant potential of the dysgenetic gonad. I.
Schellhas HF.
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COMPLICATIONS

Experience with long-term therapy in congenital
adrenal hyperplasia. Brook CG, et al.
J Pediatr 85:12-9, Jul 74
True hermaphroditism with unambiguous male
phenotype, pathologic and cytogenetic findings:
report of a case. Pflueger OH Jr, et al.
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DIAGNOSIS

Laparoscopy. Gomel V.
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[Problems of civil status arising from the anatomic and
psychological development of true hermaphroditism]
Faure J, et al.
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[Authentic hermaphroditism] Knoch HG, et al.
Zentralbl Chir 99:662-7, May 1974 (Ger)

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FAMILIAL & GENETIC

A South African Indian hermaphrodite. Grace HJ, et al.
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PATHOLOGY

True hermaphroditism with unambiguous male
phenotype, pathologic and cytogenetic findings:
report of a case. Pflueger OH Jr, et al.
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SURGERY

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BLOOD

Methodological problems and clinical validity of an
ACTH radioimmunoassay method applied to
extracted plasma samples. Genazzani AR, et al.
J Nucl Biol Med 18:67-79, Apr 74

[Experience with radioimmunoassay for the
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Anosmic hypogonadotropic hypogonadism Kallman's
syndrome--a case history complicated by cystic
fibrosis. Lox CD, et al. Ariz Med 31:508-9, Jul 74
Pheochromocytoma in a patient with primary
hypogonadism and a bicuspid aortic valve. Page J.
Proc R Soc Med 67:653-4, Jun 74
[Pituitary adenoma as a reaction to peripheral hormone
disorders] Linquette M, et al.
Actual Endocrinol (Paris) 13:247-56, 1973 (Fre)
[Olfacto-genital dysplasia syndrome]
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Mitochondrial abnormalities in ultrastructural study]
Julien J, et al.
Rev Neurol (Paris) 128:365-77, May 73 (Eng. Abstr.)
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[Olfactogenital dysplasia (Kallmann's syndrome)]
Gariépy G, et al.
Union Med Can 103:1396-400, Aug 74 (Eng. Abstr.)
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[The de Morsier-Kallman syndrome] Weltz R, et al.
Harefuah 86:357-61, 1 Apr 74 (Eng. Abstr.) (Heb)
[Unusual case of Hashimoto's disease in pluriglandular
insufficiency] Kasperlik-Zaluska A, et al.
Endokrynol Pol 25:43-8, Jan-Feb 74 (Eng. Abstr.) (Pol)

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The plasma gonadotropin response to
gonadotropin-releasing hormone in patients with
primary hypogonadism. Donald RA, et al.
J Clin Endocrinol Metab 39:364-9, Aug 74
[Olfactogenital dysplasia (Kallmann's syndrome)]
Gariépy G, et al.
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Effects of the gonadotrophin releasing hormone in
patients with hypothalamic pituitary-gonadal
diseases. Besser GM, et al.
Acta Eur Fertl 5:65-71, Mar 74
[Effect of replacement therapy on the urinary
excretion of testosterone and its basic metabolites,
androsterone and etiocholanolone, in men with
hypogonadism] Butrova SA.
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Myotonic dystrophy and its differential diagnosis.
Zellweger H, et al.
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FAMILIAL & GENETIC

49, XXXXY karyotype in mentally retarded boy.
Morić-Petrović S, et al.
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[The de Morsier-Kallman syndrome] Weltz R, et al.
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IMMUNOLOGY

"Steroid-cell" antibody in endocrine diseases. Kamp P,
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[Effect of replacement therapy on the urinary
excretion of testosterone and its basic metabolites,
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Spino-cerebellar degeneration, hormonal disorder, hypogonadism, deaf mutism and mental deficiency. Sylvester PE. J Ment Defic Res 16:203-14, Sep-Dec 72 [Olfactogenital dysplasia (Kallmann's syndrome)] Gariépy G, et al. Union Med Can 103:1396-400, Aug 74 (Eng. Abstr.) (Fre)

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III. Gonadal Hormones, Precursors, Metabolites and Synthetic Analogs

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- Morphological study of the human ovary and mammary gland under the long-term effect of progestational agents. Zañartu J, et al.
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- Pineal structure and function in domestic livestock. Symington RB, et al. *J S Afr Vet Assoc* 45:27-33, Mar 74 (87 ref.)

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Control of the circadian rhythm of the body
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NEUROENDOCRINOLOGY

11. Disorders of the Amygdaloid Body

AMYGDALOID BODY

INJURIES

Functional recovery after lesions of the nervous system. V. Neural plasticity and behavioral recovery in the central nervous system. Sequential versus single lesions and some other variables contributing to the recovery of function in the rat. Stein DG. *Neurosci Res Program Bull* 12:260-8, Jun 74

HYPOTHALAMUS

INJURIES

Functional recovery after lesions of the nervous system. V. Neural plasticity and behavioral recovery in the central nervous system. The use of recovery of function to analyze the organization of motivated behavior in the nervous system. Teitelbaum P. *Neurosci Res Program Bull* 12:255-60, Jun 74
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^{99m}Tc-polyphosphate and ^{99m}Tc-diphosphonate bone scintigraphy in neurosurgical practice. Handa J, et al. *Surg Neurol* 2:307-10, Sep 74
[Reflections on 4 cases of pinealoma] Hermo J, et al. *Maroc Med* 54:244-8, Apr 74 (Fre)

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Specialized intercellular junctions in human intracranial germinomas. Tanl E, et al. *Acta Neuropathol (Berl)* 27:139-51, 28 Feb 74
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[Reflections on 4 cases of pinealoma] Hermo J, et al. *Maroc Med* 54:244-8, Apr 74 (Fre)
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NEUROENDOCRINOLOGY

III. Neuroendocrine System Hormones, Precursors, Metabolites and Synthetic Analogs

CORTICOTROPIN RELEASING HORMONE

ANALYSIS

Protein granules in glial and ependymal cells in the hypophysiotropic area of the rat, stainable with aldehyde-fuchsin and chrome alum-hematoxylin. Kroon DB, et al. *Acta Anat (Basel)* 88:267-80, 1974
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[Role of serotonin-sensitive structures in the central nervous system in the development of compensatory adrenal hypertrophy] Drzhevetskaya IA. *Probl Endokrinol (Mosk)* 18:69-72, Sep-Oct 72 (Eng. Abstr.) (Rus)

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Changes in plasma corticosterone and hypothalamic CRF levels following intraventricular injection or drug-induced changes of brain biogenic amines in the rat. Abe K, et al. *Neuroendocrinology* 14:195-211, 74

PHYSIOLOGY

Decreased adrenal sensitivity to ACTH in the vasopressin-deficient (Brattleboro) rat. Wiley MK, et al. *Neuroendocrinology* 14:257-70, 1974

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The adeno-hypophysial response to stress and its hypothalamic control. McCann SM, et al. *Adv Exp Med Biol* 33:157-64, 1972

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[New data on the respective behavior of the CRF-ACTH and ACTH-cortisol secretory stages in normal subjects and in certain endocrine diseases] Ceresa F, et al.

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LH-FSH RELEASING HORMONE

Radioimmunoassay of luteinizing hormone-releasing hormone (LH-RH) in serum from man, sheep and rat. Jeffcoate SL, et al.

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Effects of synthetic LH-FSH-releasing hormone (LRH) on plasma LH and FSH in amenorrhoeic women. Rannevik G, et al.

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Circulating luteinizing hormone and testosterone response in rams after luteinizing hormone releasing hormone treatment. Galloway DB, et al.

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The effect of intravenous synthetic luteinizing hormone releasing hormone (LHRH) in infertile women with anovulation. Pederden PH, et al. *Acta Obstet Gynecol Scand [Suppl]* 29:89-95, 1974

The diagnostic significance of LH-releasing hormone test in patients with amenorrhea. Aono T, et al. *Am J Obstet Gynecol* 119:740-8, 15 Jul 74

Investigation of the role of tryptophan in the luteinizing hormone-releasing hormone. Coy DH, et al. *Biochemistry* 13:3550-3, 13 Aug 74

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Letter: Do pituitary prostaglandins play an essential role in the action of LH-RH in man? Patrono C, et al. *Prostaglandins* 6:345-8, 25 May 74

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Ultrastructure of rat pituitary gonadotrophs following incubations of the gland with synthetic LH-RH. Zambrano D, et al. *Cell Tissue Res* 150:179-92, 12 Jul 74

Luteinizing hormone-releasing hormone (LH-RH) content of the hypothalamic nuclei in rat. Palkovits M, et al. *Endocrinology* 96:554-8, Aug 74

Hypothalamic norepinephrine, luteinizing hormone releasing factor activity and reproduction in the Japanese quail, *Coturnix coturnix japonica*. Campbell GT, et al. *Gen Comp Endocrinol* 23:302-10, Jul 74

Proceedings: Application of LH-RH radioimmunoassay to the study of hypothalamic peptidase activity and its possible role in the control of reproduction. Griffiths EC, et al. *J Physiol (Lond)* 239:52P-53P, May 74

Luteinizing hormone releasing factor in rats exposed to constant light: effects of mating. Smith ER, et al. *Neuroendocrinology* 14:129-38, 74

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Radioimmunoassay of luteinizing hormone-releasing hormone (LH-RH) in serum from man, sheep and rat. Jeffcoate SL, et al.

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Stereoisomers of luteinizing hormone-releasing

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Biochem Biophys Res Commun 59:277-82, 10 Jul 74
 [Synthesis of releasing hormones] Bajusz S, et al.
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 hormone] Borvendég J, et al.
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- The diagnostic significance of LH-releasing hormone
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APPENDIX

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Radiologe 14:232-42, May 74 (84 ref.) (Ger)

PITUITARY NEOPLASMS

DIAGNOSIS

[Radiology of hypophysis] Löhr E, et al.
Radiologe 14:232-42, May 74 (84 ref.) (Ger)

PLACENTA

The placenta: evaluation by radionuclides and ultrasound. Johnson PM, et al.
Semin Nucl Med 4:75-93, Jan 74 (44 ref.)

ENZYMOLGY

Human placental 17beta-estradiol dehydrogenase:

characterization and structural studies. Engel LL, et al. Recent Prog Horm Res 30:139-69, 1974 (60 ref.)

PREDNISONE

ADMINISTRATION & DOSAGE

Steroid therapy of multiple myeloma and macroglobulinemia. Hoogstraten B.
Med Clin North Am 57:1321-30, Sep 73 (32 ref.)

PROGESTATIONAL HORMONES

PHARMACODYNAMICS

Gonadal hormones and triglycerides. Glueck CJ, et al.
Proc R Soc Med 67:667-9, Jun 74 (23 ref.)

PROGESTERONE

PHARMACODYNAMICS

Ovalbumin mRNA, complementary DNA and hormone regulation in chick oviduct. Schimke RT, et al.
Acta Endocrinol [Suppl] (Kbh) Suppl 180:357-, 1973 (28 ref.)

PROLACTIN

METABOLISM

[Prolactin in the human female (author's transl)] Schulz KD.
Geburtshilfe Frauenheilkd 34:475-87, Jun 74 (95 ref.) (Eng. Abstr.) (Ger)

PHARMACODYNAMICS

Proceedings: Role of short-range transmitters in hypothalamic activities. Endröczli E.
J Neural Transm 11:213-25, 1974 (22 ref.)

RENAL OSTEODYSTROPHY

RADIOGRAPHY

[Bone changes induced by hormones in renal osteopathy. Studies on the macro- and microstructure of bones] Babo H von, et al.
Radiologe 14:225-31, May 74 (33 ref.) (Ger)

RENIN

The renin-angiotensin system (first of two parts). Oparil S, et al.
N Engl J Med 291:389-401, Aug 22 74 (208 ref.)
[Low renin essential hypertension] Shimizu N.
Jap J Clin Med 31:3124-30, Nov 73 (41 ref.) (Jap)

ANTAGONISTS & INHIBITORS

Specific inhibition of the renin-angiotensin system: A key to understanding blood pressure regulation. Brunner HR, et al.
Prog Cardiovasc Dis 17:87-98, Sep-Oct 74 (59 ref.)

BLOOD

[Renal insufficiency and renin-angiotensin-aldosterone] Ishii M, et al.
Jap J Clin Med 32:518-27, Mar 74 (98 ref.) (Jap)

RICKETS

BLOOD

A role of 1,25-dihydroxyvitamin D3 in phosphate metabolism. Nutr Rev 32:247-9, Aug 74 (8 ref.)

SEX HORMONES

METABOLISM

Fungal sex hormones. Gooday GW.
Annu Rev Biochem 43:35-87, 1974 (423 ref.)

PHYSIOLOGY

The control of implantation. Finn CA, et al.
J Reprod Fertil 39:195-206, Jul 74 (55 ref.)

REVIEW SECTION

SOMATOMEDIN

METABOLISM

The somatomedins: a family of insulinlike hormones under growth hormone control. Van Wyk JJ, et al. *Recent Prog Horm Res* 30:259-318, 1974 (55 ref.)

SOMATOTROPIN

Heterogeneity of peptide hormones. Yalow RS. *Recent Prog Horm Res* 30:597-633, 1974 (48 ref.)

ANALYSIS

The search for the active core of pituitary growth hormone. Kostyo JL. *Metabolism* 23:885-99, Sep 74 (60 ref.)

PHYSIOLOGY

The somatomedins: a family of insulinlike hormones under growth hormone control. Van Wyk JJ, et al. *Recent Prog Horm Res* 30:259-318, 1974 (55 ref.)

STANOLONE

METABOLISM

Androgens. I. A review of current research on the binding and mechanism of action of androgenic steroids, notably 5 alpha-dihydrotestosterone. Mainwaring WI, et al. *Adv Exp Med Biol* 36:197-231, 1973 (95 ref.)
Studies on androgen and estrogen uptake by rat hypothalamus. Vertes M, et al. *Adv Exp Med Biol* 36:137-73, 1973 (84 ref.)

STEROIDS

BIOSYNTHESIS

Regulation of steroid biosynthesis. Dempsey ME. *Annu Rev Biochem* 43:967-90, 1974 (169 ref.)

TESTOSTERONE

METABOLISM

Androgens. I. A review of current research on the binding and mechanism of action of androgenic steroids, notably 5 alpha-dihydrotestosterone. Mainwaring WI, et al. *Adv Exp Med Biol* 36:197-231, 1973 (95 ref.)
Studies on androgen and estrogen uptake by rat hypothalamus. Vertes M, et al. *Adv Exp Med Biol* 36:137-73, 1973 (84 ref.)

THYROID ANTAGONISTS

THERAPEUTIC USE

[Chemotherapy of hyperthyroidism and its remission in Japan] Ogata E, et al. *Clin Endocrinol (Tokyo)* 22:222-30, Feb 74 (25 ref.) (Jap)

THYROID DISEASES

[Complications after thyroid gland surgery] Steinger H, et al. *Zentralbl Chir* 98:689-702, 11 May 73 (19 ref.) (Ger)

METABOLISM

Lipid changes in thyroid disease: the effect of thyroxine and analogues. Tulloch BR. *Proc R Soc Med* 67:670-1, Jun 74 (24 ref.)

THYROID GLAND

Production of triiodothyronine in normal human subjects and in patients with hyperthyroidism. Contribution of intrathyroid iodine analysis. Rapoport B, et al. *Am J Med* 56:586-91, May 74 (72 ref.)

CYTOLOGY

The cytophysiology of thyroid cells. Pantlő VR. *Int Rev Cytol* 38:153-243, 1974 (570 ref.)

PHYSIOLOGY

Thyroid thermogenesis and active sodium transport. Edelman IS, et al. *Recent Prog Horm Res* 30:235-57, 1974 (35 ref.)
[Red blood cells as effectors of thyroid hormones] Weinstein M, et al. *Medicina (B Aires)* 34:146-56, Mar 74 (106 ref.) (Spa)

PHYSIOPATHOLOGY

[Role of the thyroid gland in the pathogenesis of allergic dermatoses] Siano VI, et al. *Sov Med* 37:75-9, Jun 74 (74 ref.) (Rus)

THYROID HORMONES

SECRETION

[Red blood cells as effectors of thyroid hormones] Weinstein M, et al. *Medicina (B Aires)* 34:146-56, Mar 74 (106 ref.) (Spa)

THYROID NEOPLASMS

METABOLISM

Recent advances in calcium metabolism: application to medullary carcinoma of the thyroid and hyperparathyroidism. Kaplan EL. *Surg Annu* 5:97-119, 1973 (105 ref.)

THYROIDITIS

CLASSIFICATION

[Forms of thyroiditis] Lietz H. *Dtsch Med Wochenschr* 99:1659-64, 16 Aug 74 (44 ref.) (Ger)

THYROTROPIN RELEASING HORMONE

DIAGNOSTIC USE

[Improved evaluation criteria of autonomous thyroid adenoma: triiodothyronine concentration in serum, functional definition through TRH test] Wenzel KW, et al. *Dtsch Med Wochenschr* 99:1465-73, 5 Jul 74 (71 ref.) (Ger)

THYROXINE

METABOLISM

On the mechanism of action of thyroxine, an amino acid analog of tyrosine. Dratman MB. *J Theor Biol* 46:255-70, Jul 74 (95 ref.)

PHARMACODYNAMICS

Lipid changes in thyroid disease: the effect of thyroxine and analogues. Tulloch BR. *Proc R Soc Med* 67:670-1, Jun 74 (24 ref.)

TRIIODOTHYRONINE

Production of triiodothyronine in normal human subjects and in patients with hyperthyroidism. Contribution of intrathyroid iodine analysis. Rapoport B, et al. *Am J Med* 56:586-91, May 74 (72 ref.)

BLOOD

[Improved evaluation criteria of autonomous thyroid adenoma: triiodothyronine concentration in serum, functional definition through TRH test] Wenzel KW, et al. *Dtsch Med Wochenschr* 99:1465-73, 5 Jul 74 (71 ref.) (Ger)

[Evaluation of treatment of hyperthyroidism based on T3 analysis] Sakurada T, et al. *Clin Endocrinol (Tokyo)* 22:239-48, Feb 74 (54 ref.) (Jap)

THERAPEUTIC USE

[Chemotherapy of hyperthyroidism and its remission

REVIEW SECTION

in Japan] Ogata E, et al.
Clin Endocrinol (Tokyo) 22:222-30, Feb 74 (25 ref.)
(Jap)

TURNER'S SYNDROME

Malignant potential of the dysgenetic gonad. II.
Schellhas HF.
Obstet Gynecol 44:455-62, Sep 74 (67 ref.)

COMPLICATIONS

Malignant potential of the dysgenetic gonad. I.
Schellhas HF.
Obstet Gynecol 44:298-309, Aug 74 (98 ref.)

VASOPRESSIN

SECRETION

Para-endocrine tumor activity with emphasis on
ectopic ADH secretion. Genetic, diagnostic,
prognostic and therapeutic aspects. Vorherr H.
Oncology 29:382-416, 1974 (109 ref.)

VITAMIN D

METABOLISM

Vitamin D and its relation to calcium-phosphorus
metabolism in ruminants. Zintzen H, et al.
J S Afr Vet Med Assoc 44:25-36, Mar 73 (64 ref.)
Vitamin D hormones. 2. Briggs MH, et al.
Med J Aust 1:891-6, 1 Jun 74 (56 ref.)
The metabolism of vitamin D; recent developments and
their clinical relevance. Steendijk R.
Neth J Med 17:131-9, 1974 (63 ref.)

VITAMIN D DEFICIENCY

METABOLISM

The metabolism of vitamin D; recent developments and
their clinical relevance. Steendijk R.
Neth J Med 17:131-9, 1974 (63 ref.)

METHOD SECTION

This section is meant to be an alerting device for articles which describe: 1) new methods or techniques, 2) modifications of existing methods or 3) comparisons of different methods. For methods on a particular substance or for a specific type of method, see the subject index or the subject section (particularly the sub-headings: analysis, blood, cerebrospinal fluid, chemical synthesis, isolation and purification, and urine).

AUTOANALYSIS

Bioassay of oxytocin on the superfused mammary gland of the mouse, using an automatic apparatus. Robinson IC, et al. *Br J Pharmacol* 50:409-17, Mar 74
ACETYLCHOLINE, antagonists & inhibitors/
ANGIOTENSIN, pharmacodynamics/ ANIMAL EXPERIMENTS/ ATROPINE, pharmacodynamics/ AUTOANALYSIS/ BIOLOGICAL ASSAY, instrumentation/ BRADYKININ, pharmacodynamics/ EPINEPHRINE, pharmacodynamics/ FEMALE/ HISTAMINE, pharmacodynamics/ IN VITRO/ *MAMMAE, drug effects/ METHODS/ MICE/ NOREPINEPHRINE, pharmacodynamics/ *OXYTOCIN, analysis/ OXYTOCIN, pharmacodynamics/ PERFUSION/ PROSTAGLANDINS, pharmacodynamics/ SEROTONIN, pharmacodynamics/ TIME FACTORS/ VASOPRESSIN, pharmacodynamics

Rapid radioimmunoassay for the evaluation of thyroxine in unextracted serum. Herrmann J, et al. *Clin Chim Acta* 54:69-79, 15 Jul 74
ANILINO NAPHTHALENESULFONATES/ AUTOANALYSIS/ BLOOD PROTEINS/ CHARCOAL/ COMPARATIVE STUDY/ CROSS REACTIONS/ DEXTRAN/ EVALUATION STUDIES/ HUMAN/ INDICATORS AND REAGENTS/ IODINE RADIOISOTOPES/ METHODS/ MICROCHEMISTRY/ PROTEIN BINDING/ RABBITS, immunology/ RADIOIMMUNOASSAY/ *THYROXINE, blood/ TIME FACTORS

Standardisation of urinary estriol determinations during pregnancy. Peace SM, et al. *Clin Chim Acta* 53:323-30, 28 Jun 74
AUTOANALYSIS/ CHROMATOGRAPHY, ION EXCHANGE/ COMPARATIVE STUDY/ DRUG STABILITY/ *ESTRIOL, urine/ EVALUATION STUDIES/ FEMALE/ HUMAN/ METHODS/ *PREGNANCY/ SODIUM HYDROXIDE/ SOLUBILITY/ SPECTROMETRY, FLUORESCENCE/ TIME FACTORS

AUTORADIOGRAPHY

Fixation of catecholamine-containing tissues for histochemical demonstration of catecholamines and for radioautography of steroid hormones in the same sections. Hervonen A, et al.
Histochemistry 39:371-5, 5 Jun 74
*ADRENAL MEDULLA, analysis/ ADRENAL MEDULLA, cytology/ ANIMAL EXPERIMENTS/ AUTORADIOGRAPHY/ *CATECHOLAMINES, analysis/ COMPARATIVE STUDY/ EVALUATION STUDIES/ FORMALDEHYDE/ FREEZE DRYING/ *GANGLIA, BASAL, analysis/ GANGLIA, BASAL, cytology/ HISTOCYTOCHEMISTRY/ HISTOLOGICAL TECHNIQS/ *IRIS, analysis/ IRIS, cytology/ *MAST CELLS, analysis/ MAST CELLS, cytology/ METHODS/ MICROSCOPY, FLUORESCENCE/ *NEURONS, analysis/ OSMIUM/ RATS/ TIME FACTORS

The localization of 125-iodide and iodinated (125I) albumin in autoradiographic model experiments. Thesingh CW, et al. *Histochemistry* 39:345-9, 5 Jun 74

ALBUMINS/ ANIMAL EXPERIMENTS/ *AUTORADIOGRAPHY/ COMPARATIVE STUDY/ EVALUATION STUDIES/ *IODIDES, analysis/ IODINE RADIOISOTOPES/ METHODS/ PROTEIN BINDING/ TIME FACTORS/ TRACHEA, cytology/ TRITIUM

BIOLOGICAL ASSAY

Estimation of "total-oestrogens". Evaluation of a fluorimetric method. Fahmy N, et al. *Acta Obstet Gynecol Scand [Suppl]* 29:83-8, 1974
ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CHROMATOGRAPHY/ COMPARATIVE STUDY/ ESTRADIOL, urine/ ESTRIOL, urine/ ESTROGENS, metabolism/ *ESTROGENS, urine/ ESTRONE, urine/ EVALUATION STUDIES/ FEMALE/ HUMAN/ MALE/ MENOPAUSE/ METHODS/ *SPECTROMETRY, FLUORESCENCE/ VAGINA, metabolism

Sensitive method for the bioassay of melanocyte stimulating hormone in human saliva. Innes DL, et al. *J Dent Res* 53:814-20, Jul-Aug 74
ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ FEMALE/ HUMAN/ MALE/ METHODS/ *MSH, analysis/ MSH, metabolism/ MSH, pharmacodynamics/ PIGMENTATION, drug effects/ RANA PIPIENS/ *SALIVA, analysis/ SALIVA, metabolism/ SKIN, drug effects/ SKIN, metabolism/ SODIUM CHLORIDE/ SOLUTIONS

INSTRUMENTATION

Bioassay of oxytocin on the superfused mammary gland of the mouse, using an automatic apparatus. Robinson IC, et al. *Br J Pharmacol* 50:409-17, Mar 74
ACETYLCHOLINE, antagonists & inhibitors/
ANGIOTENSIN, pharmacodynamics/ ANIMAL EXPERIMENTS/ ATROPINE, pharmacodynamics/ AUTOANALYSIS/ BIOLOGICAL ASSAY, instrumentation/ BRADYKININ, pharmacodynamics/ EPINEPHRINE, pharmacodynamics/ FEMALE/ HISTAMINE, pharmacodynamics/ IN VITRO/ *MAMMAE, drug effects/ METHODS/ MICE/ NOREPINEPHRINE, pharmacodynamics/ *OXYTOCIN, analysis/ OXYTOCIN, pharmacodynamics/ PERFUSION/ PROSTAGLANDINS, pharmacodynamics/ SEROTONIN, pharmacodynamics/ TIME FACTORS/ VASOPRESSIN, pharmacodynamics

BODY WEIGHT

Glucagon mediation of growth hormone secretion in juvenile diabetes mellitus. Avruskun TW, et al. *Am J Med Sci* 267:327-36, Jun 74
BLOOD SUGAR/ BODY WEIGHT/ DIABETES MELLITUS, JUVENILE, drug therapy/ *DIABETES MELLITUS, JUVENILE, metabolism/ FEMALE/ GLUCAGON, administration & dosage/ *GLUCAGON, pharmacodynamics/ GLUCAGON, therapeutic use/ HUMAN/ HYPERGLYCEMIA, drug therapy/ HYPERGLYCEMIA, metabolism/ INJECTIONS, INTRAVENOUS/ MALE/ METHODS/ PROPRANOLOL, administration &

BODY WEIGHT

dosage/ PROPRANOLOL, pharmacodynamics/
PROPRANOLOL, therapeutic use/
SOMATOTROPIN, blood/ *SOMATOTROPIN,
secretion/ STIMULATION, CHEMICAL/ TIME
FACTORS

CENTRIFUGATION

Simple separation of iodide from radiolabeled
proteins by ion-exchange
chromatography-centrifugation. Fránek M, et al.
J Chromatogr 93:471-4, 26 Jun 74
CATTLE/ CENTRIFUGATION/
CHROMATOGRAPHY, ION EXCHANGE/
HUMAN/ IGG, analysis/ *IODIDES, analysis/
*IODINE RADIOISOTOPES/ *IODOPROTEINS,
analysis/ ISOTOPE LABELING/ METHODS/
SERUM ALBUMIN/ SURFACE-ACTIVE
AGENTS

CHEMISTRY

Isolation of progesterone--forty years ago. Butenandt
A, et al. Am J Obstet Gynecol 120:137-41, Sep 74
ACETYLATION/ ANIMAL EXPERIMENTS/
CHEMISTRY/ *ENDOCRINOLOGY, history/
FEMALE/ GERMANY/ HEAT/ HISTORICAL
ARTICLE/ HISTORY OF MEDICINE, 20TH
CENT./ METHODS/ POLAND/
*PROGESTERONE/ PROGESTERONE, isolation
& purification/ SWINE

Characterization of prostaglandins by combined
gas-liquid chromatography and chemical ionization
mass spectrometry. Oswald EO, et al.
J Chromatogr 93:47-62, 12 Jun 74
CHEMISTRY/ *CHROMATOGRAPHY, GAS/
ESTERS, analysis/ FLUOROACETATES,
analysis/ HUMAN/ IONS/ LUNG, metabolism/
METHODS/ METHYLATION/
*PROSTAGLANDINS, analysis/
PROSTAGLANDINS, biosynthesis/ *SPECTRUM
ANALYSIS, MASS/ STRUCTURE-ACTIVITY
RELATIONSHIP

CHROMATOGRAPHY

Estimation of "total-oestrogens". Evaluation of a
fluorimetric method. Fahmy N, et al.
Acta Obstet Gynecol Scand [Suppl] 29:83-8, 1974
ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ CHROMATOGRAPHY/
COMPARATIVE STUDY/ ESTRADIOL, urine/
ESTRIOL, urine/ ESTROGENS, metabolism/
*ESTROGENS, urine/ ESTRONE, urine/
EVALUATION STUDIES/ FEMALE/ HUMAN/
MALE/ MENOPAUSE/ METHODS/
*SPECTROMETRY, FLUORESCENCE/ VAGINA,
metabolism

Simultaneous isolation of adenosine 3',5'-cyclic
monophosphate (cAMP) and guanosine 3',5'-cyclic
monophosphate (cGMP) in small tissue samples. Mao
CC, et al. Anal Biochem 59:63-8, May 74
*ADENOSINE CYCLIC 3',5'
MONOPHOSPHATE, isolation & purification/
ADRENAL MEDULLA, analysis/ ALUMINUM/
ANIMAL EXPERIMENTS/ BRAIN STEM,
analysis/ CAUDATE NUCLEUS, analysis/
CEREBELLUM, analysis/ CEREBRAL CORTEX,
analysis/ CHROMATOGRAPHY/
CHROMATOGRAPHY, ION EXCHANGE/
COMPARATIVE STUDY/ EVALUATION
STUDIES/ *GUANOSINE CYCLIC 3',5'
MONOPHOSPHATE, isolation & purification/
HYPOTHALAMUS, analysis/ METHODS/
MICROCHEMISTRY/ MICROWAVES/ ORGAN
SPECIFICITY/ PITUITARY GLAND, analysis/
TRITIUM

Further simplifications in the immunoassay of plasma
aldosterone. Varsano-Aharon N, et al.
J Clin Endocrinol Metab 39:375-9, Aug 74
*ALDOSTERONE, blood/ CHROMATOGRAPHY/
COMPARATIVE STUDY/ HUMAN/
HYDROCORTISONE/ IMMUNE SERUMS/
METHODS/ RADIOIMMUNOASSAY/
TRANSCORTIN/ TRITIUM

Progesterone concentration in the peripheral plasma of

METHOD SECTION

the mare during the oestrous cycle and early
pregnancy. Niekerk CH van, et al.
J S Afr Vet Assoc 44:363-73, Dec 73
ANIMAL EXPERIMENTS/ BINDING,
COMPETITIVE/ CHROMATOGRAPHY/
*ESTRUS/ FEMALE/ *HORSES, physiology/
METHODS/ PREGNANCY/ *PREGNANCY,
ANIMAL/ *PROGESTERONE, blood/ PROTEIN
BINDING/ RADIOIMMUNOASSAY/
TRANSCORTIN/ TRITIUM

Identification and quantitative determination of
2-hydroxyoestriol in human late-pregnancy urine.
Gelbke HP, et al. J Steroid Biochem 5:1-7, Feb 74
CARBON RADIOISOTOPES/
CHROMATOGRAPHY/ CHROMATOGRAPHY,
GAS/ CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
COMPARATIVE STUDY/ *ESTRIOL, urine/
ESTRONE, urine/ EVALUATION STUDIES/
FEMALE/ HUMAN/ HYDROXYSTEROIDS,
urine/ METHODS/ *PREGNANCY/ SILICA/
SPECTRUM ANALYSIS, MASS/ TIME
FACTORS/ TRITIUM

Radioimmunoassay for aldosterone and normal values
under various physiological conditions. Nowaczynski
W, et al. J Steroid Biochem 5:123-31, Apr 74
ALDOSTERONE, blood/ *ALDOSTERONE,
metabolism/ ALDOSTERONE, urine/
CHROMATOGRAPHY/ CHROMATOGRAPHY,
PAPER/ COMPARATIVE STUDY/ DIET/
EVALUATION STUDIES/ EXERTION, drug
effects/ FEMALE/ GEL FILTRATION/
HUMAN/ MALE/ MENSTRUATION/
METHODS/ OVULATION/ POTASSIUM,
pharmacodynamics/ RADIOIMMUNOASSAY/
SHEEP, immunology/ SILICA/ SODIUM,
pharmacodynamics/ TIME FACTORS/ TRITIUM

Physiological variations in plasma testosterone in
normal adult male subjects measured by a
competitive protein-binding technique. Thomas MJ,
et al. J Steroid Biochem 5:45-53, Feb 74
BINDING SITES/ BLOOD PROTEINS/
CHROMATOGRAPHY/ CHROMATOGRAPHY,
PAPER/ COMPARATIVE STUDY/
EVALUATION STUDIES/ FEMALE/ HUMAN/
HYDROGEN-ION CONCENTRATION/ MALE/
METHODS/ MICROCHEMISTRY/ PROTEIN
BINDING/ RADIOLOGAND ASSAY/ SILICA/
STRUCTURE-ACTIVITY RELATIONSHIP/
*TESTOSTERONE, blood/ TIME FACTORS/
TRITIUM

Identification and quantitative determination of
prostaglandins by high pressure liquid
chromatography. Andersen NH, et al.
Prostaglandins 6:361-74, 10 Jun 74
CHROMATOGRAPHY/ CHROMATOGRAPHY,
THIN LAYER/ DIOXINS/ METHODS/
*PROSTAGLANDINS, analysis/
PROSTAGLANDINS, metabolism/ TIME
FACTORS

CHROMATOGRAPHY, GAS

The use of internal standards in the quantitative gas
chromatographic determination of urinary
17-oxosteroids. McCallum J, et al.
Ir J Med Sci 142:79-90, Mar 73
*ANDROSTERONE/ ANDROSTERONE, urine/
*CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, THIN LAYER/
HYDROLYSIS/ INDICATORS AND
REAGENTS/ *17-KETOSTEROIDS/
17-KETOSTEROIDS, urine/ METHODS/
SOLVENTS

Characterization of prostaglandins by combined
gas-liquid chromatography and chemical ionization
mass spectrometry. Oswald EO, et al.
J Chromatogr 93:47-62, 12 Jun 74
CHEMISTRY/ *CHROMATOGRAPHY, GAS/
ESTERS, analysis/ FLUOROACETATES,
analysis/ HUMAN/ IONS/ LUNG, metabolism/
METHODS/ METHYLATION/
*PROSTAGLANDINS, analysis/
PROSTAGLANDINS, biosynthesis/ *SPECTRUM

METHOD SECTION

ANALYSIS, MASS/ STRUCTURE-ACTIVITY RELATIONSHIP

Improvements in quantitative gas phase analysis of catecholamines in the picomole range by electron-capture detection and mass

fragmentography of their pentafluorobenzylamine-trimethylsilyl derivatives.

Lhuguenot JC, et al. *J Chromatogr Sci* 12:411-8, Jul 74

ADRENAL GLANDS, analysis/

*CATECHOLAMINES, analysis/

*CHROMATOGRAPHY, GAS/ DOPAMINE,

analysis/ ELECTRONS/ FLUOROBENZENES,

analysis/ IMINES, analysis/ MATHEMATICS/

METHANE/ METHODS/ METHYLATION/

MICROCHEMISTRY/ NOREPINEPHRINE,

analysis/ SILICON/ SOLUBILITY/ SPECTRUM

ANALYSIS, MASS/ TISSUE EXTRACTS,

analysis

A quantitative method for the estimation of testosterone and progesterone in human plasma. Using the gas chromatograph-mass spectrometer combination with single ion monitoring. Dehennin L, et al. *J Steroid Biochem* 5:81-6, Feb 74

ANALYSIS OF VARIANCE/

CHROMATOGRAPHY, GAS/ COMPARATIVE

STUDY/ EVALUATION STUDIES/ HUMAN/

MATHEMATICS/ METHODS/

MICROCHEMISTRY/ *PROGESTERONE, blood/

RADIOIMMUNOASSAY/

SPECTROPHOTOMETRY, INFRARED/

SPECTRUM ANALYSIS, MASS/

STRUCTURE-ACTIVITY RELATIONSHIP/

*TESTOSTERONE, blood/ TIME FACTORS

Identification and quantitative determination of 2-hydroxyoestriol in human late-pregnancy urine. Gelbke HP, et al. *J Steroid Biochem* 5:1-7, Feb 74

CARBON RADIOISOTOPES/

CHROMATOGRAPHY/ CHROMATOGRAPHY,

GAS/ CHROMATOGRAPHY, PAPER/

CHROMATOGRAPHY, THIN LAYER/

COMPARATIVE STUDY/ *ESTRIOL, urine/

ESTRONE, urine/ EVALUATION STUDIES/

FEMALE/ HUMAN/ HYDROXYSTEROIDS,

urine/ METHODS/ *PREGNANCY/ SILICA/

SPECTRUM ANALYSIS, MASS/ TIME

FACTORS/ TRITIUM

[Steroid hormones of rat adrenal glands: analysis of 18-hydroxycorticosteroids by gas-liquid chromatography, mass spectrum analysis and mass fragmentation] Prost M, et al.

J Steroid Biochem 5:133-44, Apr 74 (Eng. Abstr.) (Fre)

*ADRENAL GLANDS, analysis/ ADRENAL

GLANDS, growth & development/ ADRENAL

GLANDS, metabolism/ AGING/ ANIMAL

EXPERIMENTS/ ANIMALS, NEWBORN/

CHROMATOGRAPHY, GAS/ COMPARATIVE

STUDY/ CORTICOSTERONE, analysis/

CORTICOSTERONE, metabolism/ ENGLISH

ABSTRACT/ EVALUATION STUDIES/

*HYDROXYCORTICOSTEROIDS, analysis/

METHODS/ SITOSTEROIDS, analysis/

SITOSTEROIDS, metabolism/ SPECTRUM

ANALYSIS/ SPECTRUM ANALYSIS, MASS/

TIME FACTORS

[Rapid method for gas-chromatographic determination of fractional 17-ketosteroids] Messeri G.

Quad Sclavo Diagn 9:853-63, Sep 73 (Eng. Abstr.) (Ita)

*CHROMATOGRAPHY, GAS/ ENGLISH

ABSTRACT/ HUMAN/ HYDROLYSIS/

*17-KETOSTEROIDS, urine/ METHODS/

*SOLVENTS

INSTRUMENTATION

[Simultaneous gas-chromatographic determination of principal neutral urinary steroids with the use of glass capillary columns. Methods and clinical use] Ros A. Minerva Med 65:2568-88, 16 Jun 74 (Ita)

ANDROSTENOLS, urine/ ANDROSTERONE,

urine/ *CHROMATOGRAPHY, GAS,

Instrumentation/ CORTICOSTERONE, urine/

DEHYDROEPIANDROSTERONE, urine/

ETIOCHOLANOLONE, urine/ FEMALE/

*GLUCOCORTICIDS, urine/ GYNECOLOGIC

DISEASES, urine/ HUMAN/

HYDROCORTISONE, urine/ HYPERTRICHOSIS,
urine/ METHODS/ OVULATION/ PUBERTY/
TEMPERATURE

CHROMATOGRAPHY, ION EXCHANGE

Simultaneous isolation of adenosine 3',5'-cyclic monophosphate (cAMP) and guanosine 3',5'-cyclic monophosphate (cGMP) in small tissue samples. Mao CC, et al. *Anal Biochem* 59:63-8, May 74

*ADENOSINE CYCLIC 3',5'

MONOPHOSPHATE, isolation & purification/

ADRENAL MEDULLA, analysis/ ALUMINUM/

ANIMAL EXPERIMENTS/ BRAIN STEM,

analysis/ CAUDATE NUCLEUS, analysis/

CEREBELLUM, analysis/ CEREBRAL CORTEX,

analysis/ CHROMATOGRAPHY/

CHROMATOGRAPHY, ION EXCHANGE/

COMPARATIVE STUDY/ EVALUATION

STUDIES/ *GUANOSINE CYCLIC 3',5'

MONOPHOSPHATE, isolation & purification/

HYPOTHALAMUS, analysis/ METHODS/

MICROCHEMISTRY/ MICROWAVES/ ORGAN

SPECIFICITY/ PITUITARY GLAND, analysis/

TRITIUM

Standardisation of urinary estriol determinations during pregnancy. Peace SM, et al.

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AUTOANALYSIS/ CHROMATOGRAPHY, ION

EXCHANGE/ COMPARATIVE STUDY/ DRUG

STABILITY/ *ESTRIOL, urine/ EVALUATION

STUDIES/ FEMALE/ HUMAN/ METHODS/

*PREGNANCY/ SODIUM HYDROXIDE/

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FLUORESCENCE/ TIME FACTORS

Porcine thyrotropin. Isolation and characterization of the hormone and its alpha and beta subunits. Closset J, et al. *Eur J Biochem* 48:595-602, 1 Aug 74

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CHROMATOGRAPHY, ION EXCHANGE/

COMPARATIVE STUDY/ COUNTERCURRENT

DISTRIBUTION/ ELECTROPHORESIS,

POLYACRYLAMIDE GEL/ GEL FILTRATION/

HEXOSAMINES, analysis/ HEXOSES, analysis/

LH, analysis/ METHODS/ MOLECULAR

WEIGHT/ NEURAMINIC ACIDS, analysis/

PEPTIDE FRAGMENTS, analysis/ SWINE/

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isolation & purification/

ULTRACENTRIFUGATION/ UREA

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CORTICOTROPIN/ CROSS REACTIONS/

ESTRUS/ *FSH, blood/ IMMUNE SERUMS/

IODINE RADIOISOTOPES/ METHODS/

PITUITARY GLAND, analysis/ PROLACTIN/

RABBITS, immunology/

*RADIOIMMUNOASSAY/ SOMATOTROPIN/

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Simple separation of iodide from radiolabeled proteins by ion-exchange

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J Chromatogr 93:471-4, 26 Jun 74

CATTLE/ CENTRIFUGATION/

CHROMATOGRAPHY, ION EXCHANGE/

HUMAN/ IGG, analysis/ *IODIDES, analysis/

*IODINE RADIOISOTOPES/ *IODOPROTEINS,

analysis/ ISOTOPE LABELING/ METHODS/

SERUM ALBUMIN/ SURFACE-ACTIVE

AGENTS

Field desorption mass spectrometry in the analysis of a steroid conjugate, estriol-16 α -glucuronide.

Adlercreutz H, et al. *J Steroid Biochem* 5:163-6, Apr 74

CHROMATOGRAPHY, ION EXCHANGE/

COMPARATIVE STUDY/ *ESTRIOL, urine/

EVALUATION STUDIES/ FEMALE/ GEL

FILTRATION/ *GLUCURONATES, urine/

HUMAN/ METHODS/ MOLECULAR WEIGHT/

POTASSIUM/ *PREGNANCY/ SODIUM/

SPECTRUM ANALYSIS, MASS

METHOD SECTION

Assay of testosterone, progesterone and 17 α -hydroxyprogesterone in human plasma by radioimmunoassay after separation on hydroxyalkoxypropyl sephadex. Jänne O, et al.

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ANALYSIS OF VARIANCE/ BLOOD PROTEINS/ CHROMATOGRAPHY, ION EXCHANGE/ COMPARATIVE STUDY/ CONTRACEPTIVES, ORAL/ CROSS REACTIONS/ EVALUATION STUDIES/ FEMALE/ HUMAN/
*HYDROXYPROGESTERONE, blood/ MALE/ MENSTRUATION/ METHODS/
*PROGESTERONE, blood/ PROTEIN BINDING/ RABBITS, immunology/
RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ SPECTROPHOTOMETRY, ULTRAVIOLET/ STRUCTURE-ACTIVITY RELATIONSHIP/ SUCCINATES/
*TESTOSTERONE, blood/ TIME FACTORS/ TRITIUM

Circadian variations of plasma testosterone and estrogens in normal men. A study by frequent sampling. Leymarie P, et al.

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RADIOIMMUNOASSAY/ *TESTOSTERONE, blood/ TIME FACTORS/ TRITIUM

CHROMATOGRAPHY, PAPER

Increase of serum free thyroxine following the administration of thiocyanate and other anions in vivo and in vitro. Michajlovskij N, et al.

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ANIMAL EXPERIMENTS/ ANIONS, pharmacodynamics/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ COMPARATIVE STUDY/ HUMAN/ IODINE RADIOISOTOPES/ MALE/ METHODS/ PERCHLORIC ACIDS, pharmacodynamics/ POTASSIUM PERMANGANATE, pharmacodynamics/ PROPYLTHIOURACIL, pharmacodynamics/ RATS/ STIMULATION, CHEMICAL/ *THIOCYANATES/
THIOCYANATES, administration & dosage/ THIOCYANATES, blood/ THIOCYANATES, pharmacodynamics/ *THYROXINE/
THYROXINE, blood/ THYROXINE-BINDING PROTEIN, analysis/ TIME FACTORS

A radioimmunoassay for serum dehydroepiandrosterone. Sekihara H, et al.

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CHROMATOGRAPHY, PAPER/
CORTICOTROPIN, administration & dosage/ CORTICOTROPIN, pharmacodynamics/
*DEHYDROEPIANDROSTERONE, blood/ DEPRESSION, CHEMICAL/
DEXAMETHASONE, administration & dosage/ DEXAMETHASONE, pharmacodynamics/ FEMALE/ HUMAN/ HYDROCORTISONE, blood/ MALE/ METHODS/
*RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ SERUM GLOBULINS/
STIMULATION, CHEMICAL/ SULFATES, blood/ TRITIUM

A simultaneous measurement of plasma aldosterone and deoxycorticosterone by radioimmunoassay.

Castro A, et al. **J Steroid Biochem** 5:21-6, Feb 74
*ALDOSTERONE, blood/ ANALYSIS OF VARIANCE/ CATTLE/ CHROMATOGRAPHY, PAPER/ COMPARATIVE STUDY/
*CORTICOSTERONE, blood/ CROSS REACTIONS/ EVALUATION STUDIES/ FEMALE/ GEL FILTRATION/ HUMAN/ MALE/ MENSTRUATION/ METHODS/ MICROCHEMISTRY/ PROGESTERONE, blood/ PROTEIN BINDING/ RABBITS, immunology/
RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ STRUCTURE-ACTIVITY RELATIONSHIP/ TIME FACTORS/ TRITIUM

Identification and quantitative determination of 2-hydroxyoestrinol in human late-pregnancy urine.

Gelbke HP, et al. **J Steroid Biochem** 5:1-7, Feb 74
CARBON RADIOISOTOPES/ CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ COMPARATIVE STUDY/ *ESTRIOL, urine/ ESTRONE, urine/ EVALUATION STUDIES/ FEMALE/ HUMAN/ HYDROXYSTEROIDS, urine/ METHODS/ *PREGNANCY/ SILICA/ SPECTRUM ANALYSIS, MASS/ TIME FACTORS/ TRITIUM

Radioimmunoassay for aldosterone and normal values under various physiological conditions. Nowaczynski W, et al. **J Steroid Biochem** 5:123-31, Apr 74

ALDOSTERONE, blood/ *ALDOSTERONE, metabolism/ ALDOSTERONE, urine/ CHROMATOGRAPHY/ CHROMATOGRAPHY, PAPER/ COMPARATIVE STUDY/ DIET/ EVALUATION STUDIES/ EXERTION, drug effects/ FEMALE/ GEL FILTRATION/ HUMAN/ MALE/ MENSTRUATION/ METHODS/ OVULATION/ POTASSIUM, pharmacodynamics/ RADIOIMMUNOASSAY/ SHEEP, immunology/ SILICA/ SODIUM, pharmacodynamics/ TIME FACTORS/ TRITIUM

Physiological variations in plasma testosterone in normal adult male subjects measured by a competitive protein-binding technique. Thomas MJ, et al. **J Steroid Biochem** 5:45-53, Feb 74

BINDING SITES/ BLOOD PROTEINS/ CHROMATOGRAPHY/ CHROMATOGRAPHY, PAPER/ COMPARATIVE STUDY/ EVALUATION STUDIES/ FEMALE/ HUMAN/ HYDROGEN-ION CONCENTRATION/ MALE/ METHODS/ MICROCHEMISTRY/ PROTEIN BINDING/ RADIOLOGICAL ASSAY/ SILICA/ STRUCTURE-ACTIVITY RELATIONSHIP/
*TESTOSTERONE, blood/ TIME FACTORS/ TRITIUM

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*ALDOSTERONE, analysis/
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CHROMATOGRAPHY, THIN LAYER

A radioimmunoassay of unconjugated oestradiol in urine. Kono S, et al.

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RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ TRITIUM

Increase of serum free thyroxine following the administration of thiocyanate and other anions in vivo and in vitro. Michajlovskij N, et al.

Acta Endocrinol (Kbh) 75:707-16, Apr 74
ANIMAL EXPERIMENTS/ ANIONS, pharmacodynamics/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ COMPARATIVE STUDY/ HUMAN/ IODINE RADIOISOTOPES/ MALE/ METHODS/ PERCHLORIC ACIDS, pharmacodynamics/ POTASSIUM PERMANGANATE, pharmacodynamics/ PROPYLTHIOURACIL, pharmacodynamics/ RATS/ STIMULATION, CHEMICAL/ *THIOCYANATES/
THIOCYANATES, administration & dosage/ THIOCYANATES, blood/ THIOCYANATES, pharmacodynamics/ *THYROXINE/
THYROXINE, blood/ THYROXINE-BINDING PROTEIN, analysis/ TIME FACTORS

Preliminary studies in plasma and cerebrospinal fluid cortisol in children with different diseases. Haberkellner H, et al. **Clin Chim Acta** 54:5-10, 15 Jul 74

METHOD SECTION

COMPARATIVE

ADOLESCENCE/ CHILD/ CHILD,
PRESCHOOL/ CHROMATOGRAPHY, THIN
LAYER/ COMPARATIVE STUDY/
CONVULSIONS, metabolism/ ENCEPHALITIS,
metabolism/ EVALUATION STUDIES/
FEMALE/ HUMAN/ *HYDROCORTISONE,
analysis/ HYDROCORTISONE, blood/
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HYDROCORTISONE, metabolism/ INFANT/
MALE/ MENINGITIS, metabolism/ MENTAL
RETARDATION, metabolism/ METHODS/
MUMPS, metabolism/ PROTEIN BINDING/
RADIOLIGAND ASSAY/ SPASM, metabolism/
SYNDROME/ TRANCORTIN/ TRITIUM

The use of internal standards in the quantitative gas
chromatographic determination of urinary
17-oxosteroids. McCallum J, et al.

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*ANDROSTERONE/ ANDROSTERONE, urine/
*CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, THIN LAYER/
HYDROLYSIS/ INDICATORS AND
REAGENTS/ *17-KETOSTEROIDS/
17-KETOSTEROIDS, urine/ METHODS/
SOLVENTS

Application of thin-layer gel filtration in the
microanalysis of radiolabeled proteins. Hruška KJ,
et al. *J Chromatogr* 93:475-9, 28 Jun 74

BUFFERS/ CATTLE/ CHROMATOGRAPHY,
THIN LAYER/ GEL FILTRATION/ HUMAN/
HYDROGEN-ION CONCENTRATION/ IGG,
analysis/ *IODINE RADIOISOTOPES/
*IODOPROTEINS, analysis/ ISOTOPE
LABELING/ METHODS/ MICROCHEMISTRY/
PROTEIN BINDING/ SERUM ALBUMIN,
analysis

Identification and quantitative determination of
2-hydroxyoestriol in human late-pregnancy urine.

Gelbke HP, et al. *J Steroid Biochem* 5:1-7, Feb 74

CARBON RADIOISOTOPES/
CHROMATOGRAPHY/ CHROMATOGRAPHY,
GAS/ CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
COMPARATIVE STUDY/ *ESTRIOL, urine/
ESTRONE, urine/ EVALUATION STUDIES/
FEMALE/ HUMAN/ HYDROXYSTEROIDS,
urine/ METHODS/ *PREGNANCY/ SILICA/
SPECTRUM ANALYSIS, MASS/ TIME
FACTORS/ TRITIUM

Simultaneous determination of cortisol, deoxycortisol
and corticosterone in plasma and urine by competitive
protein binding assay. Response of normal subjects to
ACTH and metyrapone. Kolanowski J.

J Steroid Biochem 5:55-64, Feb 74

ADMINISTRATION, ORAL/ ADULT/
CHROMATOGRAPHY, THIN LAYER/
COMPARATIVE STUDY/ CORTICOSTERONE,
blood/ *CORTICOSTERONE, metabolism/
CORTICOSTERONE, urine/ CORTICOTROPIN,
administration & dosage/ *CORTICOTROPIN,
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HUMAN/ HYDROCORTISONE, blood/
*HYDROCORTISONE, metabolism/
HYDROCORTISONE, urine/ INJECTIONS,
INTRAVENOUS/ METHODS/ METYRAPONE,
administration & dosage/ *METYRAPONE,
pharmacodynamics/ MICROCHEMISTRY/
RADIOLIGAND ASSAY/ TIME FACTORS/
TRITIUM

Identification and quantitative determination of
prostaglandins by high pressure liquid
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Prostaglandins 6:361-74, 10 Jun 74

CHROMATOGRAPHY/ CHROMATOGRAPHY,
THIN LAYER/ DIOXINS/ METHODS/
*PROSTAGLANDINS, analysis/
PROSTAGLANDINS, metabolism/ TIME
FACTORS

Use of ion-exchange resins for removing
prostaglandins from human urine prior to
radioimmunoassay. Fretland DJ.

Prostaglandins 6:421-5, 10 Jun 74

CHROMATOGRAPHY, THIN LAYER/ HUMAN/
*ION EXCHANGE RESINS/ METHODS/

*PROSTAGLANDINS, urine/
RADIOIMMUNOASSAY/ TRITIUM/ URINE,
analysis

Plasma esterification of cholestanol, normally and in
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*ACYLTRANSFERASES, blood/ ADULT/
*BRAIN DISEASES, blood/ *CHOLESTANES,
blood/ CHOLESTANES, metabolism/
CHOLESTEROL, blood/ CHOLESTEROL,
metabolism/ CHROMATOGRAPHY, THIN
LAYER/ ESTERS/ FEMALE/ HUMAN/ *LIPID
METABOLISM, INBORN ERRORS, blood/
LIPID METABOLISM, INBORN ERRORS,
enzymology/ MALE/ METHODS/ MIDDLE
AGE/ TIME FACTORS/ TRITIUM/
*XANTHOMATOSIS, blood/ XANTHOMATOSIS,
enzymology

[Rapid identification of various steroids in currently
consumed milks] Pellerin F, et al.

Ann Pharm Fr 31:269-72, Apr 73 (Eng. Abstr.) (Fre)

*ADRENAL CORTEX HORMONES, analysis/
CATTLE/ CHROMATOGRAPHY, THIN
LAYER/ ENGLISH ABSTRACT/ *ESTROGENS,
analysis/ METHODS/ *MILK, analysis/
*PROGESTERONE, analysis

[Determination of the plasma transcortin
18-OH-DIC-binding capacity] Gollkov PP.

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Abstr.) (Rus)

ANIMAL EXPERIMENTS/ BINDING,
COMPETITIVE/ CHROMATOGRAPHY, THIN
LAYER/ CORTICOSTERONE, metabolism/
DESOXYCORTICOSTERONE, blood/
*DESOXYCORTICOSTERONE, metabolism/
ENGLISH ABSTRACT/ FEMALE/
HYDROXYLATION/ IN VITRO/ METHODS/
MOLECULAR WEIGHT/ RATS/
SPECTROPHOTOMETRY, ULTRAVIOLET/
*TRANCORTIN, metabolism

[Determination of aldosterone in the peripheral blood
by the double isotope label method using
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*ACETIC ACIDS, analysis/ ACETYLATION/
*ALDOSTERONE, blood/ *ANHYDRIDES,
analysis/ ANIMAL EXPERIMENTS/ CARBON
RADIOISOTOPES/ CHROMATOGRAPHY, THIN
LAYER/ DOGS/ ENGLISH ABSTRACT/
ISOTOPE LABELING/ METHODS/
MICROCHEMISTRY/ SCINTILLATION
COUNTERS/ TRITIUM

COLORIMETRY

Colorimetric assay of epinephrine. Salama RB, et al.
J Pharm Sci 63:1301-2, Aug 74

ADRENOCROME, analysis/ BENZENE
DERIVATIVES, analysis/ CATECHOL, analysis/
COLORIMETRY/ *EPINEPHRINE, analysis/
HYDROGEN-ION CONCENTRATION/
INDICATORS AND REAGENTS/ METHODS/
METHYLATION/ NOREPINEPHRINE, analysis/
TEMPERATURE/ THIOSEMICARBAZONES

Determination of methyl dopa in pharmaceutical dosage
forms and biological fluids based on oxidation at the
tubular carbon electrode. Stewart JT, et al.

J Pharm Sci 63:954-5, Jun 74

ANIMAL EXPERIMENTS/ COLORIMETRY/
COMPARATIVE STUDY/ ELECTRODES/
METHODS/ *METHYLDOPA, analysis/
METHYLDOPA, blood/ METHYLDOPA, urine/
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RABBITS/ TABLETS, analysis

COMPARATIVE STUDY

Increase of serum free thyroxine following the
administration of thiocyanate and other anions in vivo
and in vitro. Michajlovskij N, et al.

Acta Endocrinol (Kbh) 75:707-16, Apr 74

ANIMAL EXPERIMENTS/ ANIONS,
pharmacodynamics/ CHROMATOGRAPHY,

PAPER/ CHROMATOGRAPHY, THIN LAYER/
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PERCHLORIC ACIDS, pharmacodynamics/
POTASSIUM PERMANGANATE,
pharmacodynamics/ PROPYLTHIOURACIL,
pharmacodynamics/ RATS/ STIMULATION,
CHEMICAL/ *THIOCYANATES/
THIOCYANATES, administration & dosage/
THIOCYANATES, blood/ THIOCYANATES,
pharmacodynamics/ *THYROXINE/
THYROXINE, blood/ THYROXINE-BINDING
PROTEIN, analysis/ TIME FACTORS

Estimation of "total-oestrogens". Evaluation of a
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ASSAY/ CHROMATOGRAPHY/
COMPARATIVE STUDY/ ESTRADIOL, urine/
ESTRIOL, urine/ ESTROGENS, metabolism/
*ESTROGENS, urine/ ESTRONE, urine/
EVALUATION STUDIES/ FEMALE/ HUMAN/
MALE/ MENOPAUSE/ METHODS/
*SPECTROMETRY, FLUORESCENCE/ VAGINA,
metabolism

A semiquantitative hemagglutination inhibition assay
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HUMAN/ IMMUNOELECTROPHORESIS/ IN
VITRO/ METHODS/ *PLACENTAL
LACTOGEN, blood/ TIME FACTORS

Radioimmunological methods for the estimation of
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ANTIBODY SPECIFICITY/ CHARCOAL/
COMPARATIVE STUDY/ CROSS REACTIONS/
DEXTRAN/ *ESTRADIOL, blood/ *ESTRIOL,
blood/ *ESTRONE, blood/ FEMALE/ GEL
FILTRATION/ IMMUNE SERUMS/ MALE/
METHODS/ PREGNANCY/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE/ SHEEP, immunology/ TRITIUM

Factors affecting the saturation assay of cyclic AMP in
biological systems. Albano JD, et al.

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*ADENOSINE CYCLIC 3',5'
MONOPHOSPHATE, analysis/ ANIMAL
EXPERIMENTS/ CALCIUM/ CATTLE/
COMPARATIVE STUDY/ FEMALE/ KIDNEY,
analysis/ LIVER, analysis/ MAGNESIUM/
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RATS/ SERUM ALBUMIN, BOVINE/
TRITIUM/ ZINC

Simultaneous isolation of adenosine 3',5'-cyclic
monophosphate (cAMP) and guanosine 3',5'-cyclic
monophosphate (cGMP) in small tissue samples. Mao
CC, et al. Anal Biochem 59:63-8, May 74

*ADENOSINE CYCLIC 3',5'
MONOPHOSPHATE, isolation & purification/
ADRENAL MEDULLA, analysis/ ALUMINUM/
ANIMAL EXPERIMENTS/ BRAIN STEM,
analysis/ CAUDATE NUCLEUS, analysis/
CEREBELLUM, analysis/ CEREBRAL CORTEX,
analysis/ CHROMATOGRAPHY/
CHROMATOGRAPHY, ION EXCHANGE/
COMPARATIVE STUDY/ EVALUATION
STUDIES/ *GUANOSINE CYCLIC 3',5'
MONOPHOSPHATE, isolation & purification/
HYPOTHALAMUS, analysis/ METHODS/
MICROCHEMISTRY/ MICROWAVES/ ORGAN
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Norepinephrine and dopamine content of hypothalamic
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Brain Res 77:137-49, 30 Aug 74

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COMPARATIVE STUDY/ *DOPAMINE,
analysis/ *HYPOTHALAMUS, analysis/ MALE/
METHODS/ *NOREPINEPHRINE, analysis/
RATS/ RATS, INBRED STRAINS

Studies on follicle-stimulating hormone in serum and
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COMPARATIVE STUDY/ CROSS REACTIONS/
EVALUATION STUDIES/ FEMALE/ FSH,
blood/ *FSH, metabolism/ FSH, urine/
GONADOTROPINS, CHORIONIC, blood/
HUMAN/ MENOPAUSE/ MENSTRUATION/
METHODS/ *PREGNANCY/
RADIOIMMUNOASSAY/ REGRESSION
ANALYSIS/ TIME FACTORS

Preliminary studies in plasma and cerebrospinal fluid
cortisol in children with different diseases.

Haberfellner H, et al. Clin Chim Acta 54:5-10, 15 Jul 74

ADOLESCENCE/ CHILD/ CHILD,
PRESCHOOL/ CHROMATOGRAPHY, THIN
LAYER/ COMPARATIVE STUDY/
CONVULSIONS, metabolism/ ENCEPHALITIS,
metabolism/ EVALUATION STUDIES/
FEMALE/ HUMAN/ *HYDROCORTISONE,
analysis/ HYDROCORTISONE, blood/
HYDROCORTISONE, cerebrospinal fluid/
HYDROCORTISONE, metabolism/ INFANT/
MALE/ MENINGITIS, metabolism/ MENTAL
RETARDATION, metabolism/ METHODS/
MUMPS, metabolism/ PROTEIN BINDING/
RADIOLIGAND ASSAY/ SPASM, metabolism/
SYNDROME/ TRANCORTIN/ TRITIUM

Rapid radioimmunoassay for the evaluation of
thyroxine in unextracted serum. Herrmann J, et al.

Clin Chim Acta 54:69-79, 15 Jul 74

ANILINO NAPHTHALENESULFONATES/
AUTOANALYSIS/ BLOOD PROTEINS/
CHARCOAL/ COMPARATIVE STUDY/ CROSS
REACTIONS/ DEXTRAN/ EVALUATION
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REAGENTS/ IODINE RADIOISOTOPES/
METHODS/ MICROCHEMISTRY/ PROTEIN
BINDING/ RABBITS, immunology/
RADIOIMMUNOASSAY/ *THYROXINE, blood/
TIME FACTORS

The use of

17beta-oestradiol-6-(O-carboxymethyl)oxime-
(125I)tyramine as tracer for the radioimmunoassay of
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BINDING SITES, ANTIBODY/ CHARCOAL/
COMPARATIVE STUDY/ CROSS REACTIONS/
DEXTRAN/ *ESTRADIOL, analysis/
EVALUATION STUDIES/ HUMAN/ IODINE
RADIOISOTOPES/ METHODS/
MICROCHEMISTRY/ OXIMES/ PROTEIN
BINDING/ RADIOIMMUNOASSAY/ SHEEP,
immunology/ TIME FACTORS/ TYRAMINE

Standardisation of urinary estradiol determinations
during pregnancy. Peace SM, et al.

Clin Chim Acta 53:323-30, 28 Jun 74

AUTOANALYSIS/ CHROMATOGRAPHY, ION
EXCHANGE/ COMPARATIVE STUDY/ DRUG
STABILITY/ *ESTRIOL, urine/ EVALUATION
STUDIES/ FEMALE/ HUMAN/ METHODS/
*PREGNANCY/ SODIUM HYDROXIDE/
SOLUBILITY/ SPECTROMETRY,
FLUORESCENCE/ TIME FACTORS

Adsorption onto dextran-coated charcoal as a rapid
method for 125 I-labelled insulin damage assessment.

Prószyńska T, et al. Clin Chim Acta 53:5-10, 31 May 74

ADSORPTION/ CHARCOAL/ COMPARATIVE
STUDY/ DEXTRAN/ DRUG STABILITY/
ELECTROPHORESIS, PAPER/ EVALUATION
STUDIES/ GEL FILTRATION/ GUINEA PIGS,
immunology/ *INSULIN, analysis/ INSULIN
ANTIBODIES/ IODINE RADIOISOTOPES/
METHODS/ SERUM ALBUMIN, BOVINE/
TIME FACTORS

A simple method for determining plasma insulin in the
presence of endogenous insulin antibodies. Martin FI,

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CHARCOAL/ COMPARATIVE STUDY/
DEXTRAN/ DIABETES MELLITUS, blood/
DIABETES MELLITUS, drug therapy/
FEMALE/ HUMAN/ *INSULIN, blood/
INSULIN, pharmacodynamics/ INSULIN,
therapeutic use/ *INSULIN ANTIBODIES/
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RADIOISOTOPES/ MALE/ METHODS/
PROTEIN BINDING/ RADIOIMMUNOASSAY
- Porcine thyrotropin. Isolation and characterization of
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diagnosis/ DENSITOMETRY, X-RAY/
DIAGNOSIS, DIFFERENTIAL/ ENGLISH
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Adsorption onto dextran-coated charcoal as a rapid
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Porcine thyrotropin. Isolation and characterization of
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Proceedings: The surface membrane of human
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Field desorption mass spectrometry in the analysis of a
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A simultaneous measurement of plasma aldosterone

and deoxycorticosterone by radioimmunoassay.
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 FEMALE/ GEL FILTRATION/ HUMAN/
 MALE/ MENSTRUATION/ METHODS/
 MICROCHEMISTRY/ PROGESTERONE, blood/
 PROTEIN BINDING/ RABBITS, immunology/
 RADIOIMMUNOASSAY/ SERUM ALBUMIN,
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 HUMAN/ MALE/ MENSTRUATION/
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 SHEEP, immunology/ SILICA/ SODIUM,
 pharmacodynamics/ TIME FACTORS/ TRITIUM

HEMAGGLUTINATION INHIBITION TESTS

A semiquantitative hemagglutination inhibition assay
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 pregnancy. A screening procedure suitable for
 capillary blood. Gaede P, et al.
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 INHIBITORS, analysis/ MUCOUS MEMBRANE,
 analysis/ MUSCLE, SMOOTH, analysis/
 NIALAMIDE, pharmacodynamics/
 NOREPINEPHRINE, analysis/
 *NOREPINEPHRINE, metabolism/
 NOREPINEPHRINE, pharmacodynamics/
 PHENOXYBENZAMINE, pharmacodynamics/
 TEMPERATURE/ TRACHEA, cytology/
 *TRACHEA, metabolism

Fixation of catecholamine-containing tissues for
 histochemical demonstration of catecholamines and
 for radioautography of steroid hormones in the same
 sections. Hervonen A, et al.
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 *ADRENAL MEDULLA, analysis/ ADRENAL
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 *CATECHOLAMINES, analysis/ COMPARATIVE
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 HISTOLOGICAL TECHNIQUES/ *IRIS, analysis/
 IRIS, cytology/ *MAST CELLS, analysis/
 MAST CELLS, cytology/ METHODS/
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Quantitative histologic distribution of adenosine-3',5'-monophosphate in the rat stomach. Improved procedure for the luminescence assay. Glick D, et al.

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LUCIFERIN/ LUMINESCENCE/ MALE/
METHODS/ MICROCHEMISTRY/ MUSCLE,
SMOOTH, analysis/ MUSCLE, SMOOTH,
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Procedure for the histochemical demonstration of noradrenaline and 5-hydroxytryptamine in the central nervous system using the formaldehyde induced fluorescence method. Laszlo I.

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VENTRICLES, analysis/ FEMALE/
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HISTOLOGICAL TECHNIQS/ MALE/
METHODS/ MICROSCOPY, FLUORESCENCE/
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analysis/ HISTOCYTOCHEMISTRY/ IMMUNE
SERUMS/ *INSULIN, analysis/ *ISLANDS OF
LANGERHANS, analysis/ METHODS/ MICE/
MICROSCOPY, FLUORESCENCE/ PANCREAS,
analysis/ RATS

HISTOLOGICAL TECHNIQS

Fixation of catecholamine-containing tissues for histochemical demonstration of catecholamines and for radioautography of steroid hormones in the same sections. Hervonen A, et al.

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STUDY/ EVALUATION STUDIES/
FORMALDEHYDE/ FREEZE DRYING/
*GANGLIA, BASAL, analysis/ GANGLIA,
BASAL, cytology/ HISTOCYTOCHEMISTRY/
HISTOLOGICAL TECHNIQS/ *IRIS, analysis/
IRIS, cytology/ *MAST CELLS, analysis/
MAST CELLS, cytology/ METHODS/
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Procedure for the histochemical demonstration of noradrenaline and 5-hydroxytryptamine in the central nervous system using the formaldehyde induced fluorescence method. Laszlo I.

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IMMUNOELECTROPHORESIS

A semiquantitative hemagglutination inhibition assay for human placental lactogen (HPL) in the late part of pregnancy. A screening procedure suitable for capillary blood. Gaede P, et al.

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DILUTION TECHNIQS/ ISOPROTERENOL/
*KIDNEY, physiochemistry/ KIDNEY CORTEX,
blood supply/ KIDNEY CORTEX NECROSIS,
etiology/ *KIDNEY FAILURE, ACUTE,
physiochemistry/ METHODS/ NEPHRITIS,
INTERSTITIAL, etiology/ POISONING/
POSTOPERATIVE COMPLICATIONS/
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Use of ion-exchange resins for removing prostaglandins from human urine prior to radioimmunoassay. Fretland DJ.

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Simultaneous isolation of adenosine 3',5'-cyclic monophosphate (cAMP) and guanosine 3',5'-cyclic monophosphate (cGMP) in small tissue samples. Mao CC, et al. **Anal Biochem** 59:63-8, May 74

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ADRENAL MEDULLA, analysis/ ALUMINUM/
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analysis/ CAUDATE NUCLEUS, analysis/
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analysis/ CHROMATOGRAPHY/
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COMPARATIVE STUDY/ EVALUATION
STUDIES/ *GUANOSINE CYCLIC 3',5'
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HYPOTHALAMUS, analysis/ METHODS/
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TRITIUM

Rapid radioimmunoassay for the evaluation of thyroxine in unextracted serum. Herrmann J, et al.
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ANILINO NAPHTHALENESULFONATES/
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METHODS/ MICROCHEMISTRY/ PROTEIN
BINDING/ RABBITS, immunology/
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TIME FACTORS

The use of
17beta-oestradiol-6-(O-carboxymethyl)oxime-
(125I)tyramine as tracer for the radioimmunoassay of
17beta-oestradiol. Lindberg P, et al.

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 DEXTRAN/ *ESTRADIOL, analysis/
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 METHANE/ METHODS/ METHYLATION/
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 LUCIFERIN/ LUMINESCENCE/ MALE/
 METHODS/ MICROCHEMISTRY/ MUSCLE,
 SMOOTH, analysis/ MUSCLE, SMOOTH,
 cytology/ PHOSPHODIESTERASES/
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- A simultaneous measurement of plasma aldosterone
 and deoxycorticosterone by radioimmunoassay.
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 MATHEMATICS/ METHODS/
 MICROCHEMISTRY/ *PROGESTERONE, blood/
 RADIOIMMUNOASSAY/
 SPECTROPHOTOMETRY, INFRARED/
 SPECTRUM ANALYSIS, MASS/
 STRUCTURE-ACTIVITY RELATIONSHIP/
 *TESTOSTERONE, blood/ TIME FACTORS

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 ADMINISTRATION, ORAL/ ADULT/
 CHROMATOGRAPHY, THIN LAYER/
 COMPARATIVE STUDY/ CORTICOSTERONE,
 blood/ *CORTICOSTERONE, metabolism/
 CORTICOSTERONE, urine/ CORTICOTROPIN,
 administration & dosage/ *CORTICOTROPIN,
 pharmacodynamics/ EVALUATION STUDIES/
 HUMAN/ HYDROCORTISONE, blood/
 *HYDROCORTISONE, metabolism/
 HYDROCORTISONE, urine/ INJECTIONS,
 INTRAVENOUS/ METHODS/ METYRAPONE,
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 pharmacodynamics/ MICROCHEMISTRY/
 RADIOLOGICAL ASSAY/ TIME FACTORS/
 TRITIUM

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 HYDROGEN-ION CONCENTRATION/ MALE/
 METHODS/ MICROCHEMISTRY/ PROTEIN
 BINDING/ RADIOLOGICAL ASSAY/ SILICA/
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- CATTLE/ COMPARATIVE STUDY/ CROSS
 REACTIONS/ DOGS/ EVALUATION STUDIES/
 HUMAN/ MALE/ METHODS/
 MICROCHEMISTRY/ PREDNISOLONE, blood/
 *PREDNISONE, blood/ PREDNISONE,
 metabolism/ PROTEIN BINDING/ RABBITS,
 immunology/ RADIOIMMUNOASSAY/ SERUM
 ALBUMIN, BOVINE/ SPECIES SPECIFICITY/
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Steroid radioimmunoassay: contribution of standards to
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 MICROCHEMISTRY/ RABBITS, immunology/
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 MICROCHEMISTRY/ *SILVER/ *STEROIDS,
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- *ACETIC ACIDS, analysis/ ACETYLATION/
 *ALDOSTERONE, blood/ *ANHYDRIDES,
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 RADIOISOTOPES/ CHROMATOGRAPHY, THIN
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 METHODS/ *METHYLDOPA, analysis/

METHOD SECTION PROTEIN BINDING

METHYLDOPA, blood/ METHYLDOPA, urine/
OXIDATION-REDUCTION/ POLAROGRAPHY/
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PROTEIN BINDING

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MONOPHOSPHATE, analysis/ ANIMAL
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COMPARATIVE STUDY/ FEMALE/ KIDNEY,
analysis/ LIVER, analysis/ MAGNESIUM/
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Preliminary studies in plasma and cerebrospinal fluid cortisol in children with different diseases.

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LAYER/ COMPARATIVE STUDY/
CONVULSIONS, metabolism/ ENCEPHALITIS,
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FEMALE/ HUMAN/ *HYDROCORTISONE,
analysis/ HYDROCORTISONE, blood/
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Rapid radioimmunoassay for the evaluation of thyroxine in unextracted serum. Herrmann J, et al.

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ANILINO NAPHTHALENESULFONATES/
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REACTIONS/ DEXTRAN/ EVALUATION
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METHODS/ MICROCHEMISTRY/ PROTEIN
BINDING/ RABBITS, immunology/
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The use of

17beta-oestradiol-6-(O-carboxymethyl)oxime-
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therapeutic use/ *INSULIN ANTIBODIES/
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METHODS/ PROTEIN BINDING/ TIME
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Application of thin-layer gel filtration in the

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*IODOPROTEINS, analysis/ ISOTOPE
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A radioimmunoassay for measurement of 3,3',5'-triiodothyronine (reverse T3). Chopra IJ.

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SERUMS/ INFANT, NEWBORN/ IODINE
RADIOISOTOPES/ MALE/ METHODS/
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metabolism/ THYROGLOBULIN, metabolism/
THYRONINE, blood/ THYROXINE, blood/
THYROXINE-BINDING PROTEIN, metabolism/
*TRIIODOTHYRONINE, blood/
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UMBILICAL CORD

An evaluation of absorbent granule kits for determining serum thyroxine concentration and free thyroxine index in the diagnosis of thyroid function.

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HYPERTHYROIDISM, blood/
HYPERTHYROIDISM, diagnosis/
HYPOTHYROIDISM, blood/
HYPOTHYROIDISM, diagnosis/ METHODS/
MIDDLE AGE/ PREGNANCY/ PROTEIN
BINDING/ *THYROID DISEASES, blood/
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*THYROXINE, blood/ TRIIODOTHYRONINE,
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MEMBRANE, immunology/
ELECTROPHORESIS, POLYACRYLAMIDE
GEL/ FEMALE/ GEL FILTRATION/ HUMAN/
*IMMUNE TOLERANCE/ METHODS/
*PLACENTA, immunology/ PREGNANCY/
*PROGESTERONE, analysis/ *PROTEIN
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Progesterone concentration in the peripheral plasma of the mare during the oestrous cycle and early pregnancy. Nlekerk CH van, et al.

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ANIMAL EXPERIMENTS/ BINDING,
COMPETITIVE/ CHROMATOGRAPHY/
*ESTRUS/ FEMALE/ *HORSES, physiology/
METHODS/ PREGNANCY/ *PREGNANCY,
ANIMAL/ *PROGESTERONE, blood/ PROTEIN
BINDING/ RADIOIMMUNOASSAY/
TRANCORTIN/ TRITIUM

A simultaneous measurement of plasma aldosterone and deoxycorticosterone by radioimmunoassay.

Castro A, et al. J Steroid Biochem 5:21-6, Feb 74

*ALDOSTERONE, blood/ ANALYSIS OF
VARIANCE/ CATTLE/ CHROMATOGRAPHY,
PAPER/ COMPARATIVE STUDY/
*CORTICOSTERONE, blood/ CROSS
REACTIONS/ EVALUATION STUDIES/
FEMALE/ GEL FILTRATION/ HUMAN/
MALE/ MENSTRUATION/ METHODS/
MICROCHEMISTRY/ PROGESTERONE, blood/
PROTEIN BINDING/ RABBITS, immunology/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE/ STRUCTURE-ACTIVITY
RELATIONSHIP/ TIME FACTORS/ TRITIUM

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ANALYSIS OF VARIANCE/ BLOOD
PROTEINS/ CHROMATOGRAPHY, ION
EXCHANGE/ COMPARATIVE STUDY/
CONTRACEPTIVES, ORAL/ CROSS
REACTIONS/ EVALUATION STUDIES/
FEMALE/ HUMAN/
*HYDROXYPROGESTERONE, blood/ MALE/
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*PROGESTERONE, blood/ PROTEIN BINDING/
RABBITS, immunology/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE/ SPECTROPHOTOMETRY,
ULTRAVIOLET/ STRUCTURE-ACTIVITY
RELATIONSHIP/ SUCCINATES/
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CHROMATOGRAPHY/ CHROMATOGRAPHY,
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EVALUATION STUDIES/ FEMALE/ HUMAN/
HYDROGEN-ION CONCENTRATION/ MALE/
METHODS/ MICROCHEMISTRY/ PROTEIN
BINDING/ RADIOLIGAND ASSAY/ SILICA/
STRUCTURE-ACTIVITY RELATIONSHIP/
*TESTOSTERONE, blood/ TIME FACTORS/
TRITIUM

Radioimmunoassay for prednisone. Colburn WA.
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CATTLE/ COMPARATIVE STUDY/ CROSS
REACTIONS/ DOGS/ EVALUATION STUDIES/
HUMAN/ MALE/ METHODS/
MICROCHEMISTRY/ PREDNISOLONE, blood/
*PREDNISONE, blood/ PREDNISONE,
metabolism/ PROTEIN BINDING/ RABBITS,
immunology/ RADIOIMMUNOASSAY/ SERUM
ALBUMIN, BOVINE/ SPECIES SPECIFICITY/
STRUCTURE-ACTIVITY RELATIONSHIP/
SUCCINATES/ TIME FACTORS/ TRITIUM

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AGED/ ANTIBODY SPECIFICITY/
ANTIGEN-ANTIBODY REACTIONS/
CHARCOAL/ DEXTRAN/ FEMALE/ HUMAN/
*HYPERTHYROIDISM, blood/
*HYPOTHYROIDISM, blood/ IMMUNE
SERUMS/ IODINE RADIOISOTOPES/ MALE/
METHODS/ MIDDLE AGE/ RABBITS,
immunology/ RADIOIMMUNOASSAY/ SEX
FACTORS/ THYROTROPIN, blood/
THYROXINE, blood/ TIME FACTORS/
*TRIIODOTHYRONINE, blood

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LAYER/ *ESTRADIOL, urine/ ESTRONE/
FEMALE/ HUMAN/ IMMUNE SERUMS/
MALE/ MENSTRUATION/ METHODS/
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BOVINE/ TRITIUM

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FEMALE/ FETAL DEATH/ FETAL DISEASES,
blood/ FETUS, growth & development/
GESTATIONAL AGE/ HEMOGLOBIN/
HUMAN/ METHODS/ PREGNANCY/
*PREGNANCY IN DIABETES, blood/
*PREGNANCY TOXEMIAS, blood/
RADIOIMMUNOASSAY/ RH FACTORS, blood/
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*ESTRIOL, blood/ *ESTRONE, blood/
FEMALE/ GEL FILTRATION/ HUMAN/
METHODS/ PARITY/ *PREGNANCY/
RADIOIMMUNOASSAY/ TIME FACTORS

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DEXTRAN/ *ESTRADIOL, blood/ *ESTRIOL,
blood/ *ESTRONE, blood/ FEMALE/ GEL
FILTRATION/ IMMUNE SERUMS/ MALE/
METHODS/ PREGNANCY/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
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ESTROGENS, pharmacodynamics/ ESTROGENS,
therapeutic use/ ESTROGENS, urine/
FEMALE/ *FSH, blood/ HUMAN/
INJECTIONS, INTRAVENOUS/ *LH, blood/
LH-FSH RELEASING HORMONE,
administration & dosage/ LH-FSH RELEASING
HORMONE, pharmacodynamics/ *LH-FSH
RELEASING HORMONE, therapeutic use/
MENOTROPINS, administration & dosage/
MENOTROPINS, pharmacodynamics/
MENOTROPINS, therapeutic use/ METHODS/
*OVULATION, drug effects/
PREMEDICATION/ RADIOIMMUNOASSAY/
*STERILITY, FEMALE, drug therapy/
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METHODS/ PROSTAGLANDINS, chem
synthesis/ PROSTAGLANDINS, metabolism/
*PROSTAGLANDINS, urine/ RABBITS,
immunology/ RADIOIMMUNOASSAY/
SCINTILLATION COUNTERS/ SERUM
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FACTORS/ TRITIUM

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GONADOTROPINS, CHORIONIC, blood/
HUMAN/ MENOPAUSE/ MENSTRUATION/
METHODS/ *PREGNANCY/
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AUTOANALYSIS/ BLOOD PROTEINS/
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REACTIONS/ DEXTRAN/ EVALUATION
STUDIES/ HUMAN/ INDICATORS AND
REAGENTS/ IODINE RADIOISOTOPES/
METHODS/ MICROCHEMISTRY/ PROTEIN

METHOD SECTION

BINDING/ RABBITS, immunology/
RADIOIMMUNOASSAY/ *THYROXINE, blood/
TIME FACTORS

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EVALUATION STUDIES/ HUMAN/ IODINE
RADIOISOTOPES/ METHODS/
MICROCHEMISTRY/ OXIMES/ PROTEIN
BINDING/ RADIOIMMUNOASSAY/ SHEEP,
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CATHETERIZATION/ GUINEA PIGS,
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metabolism/ HYPERPARATHYROIDISM,
metabolism/ HYPOPARATHYROIDISM,
metabolism/ IMMUNE SERUMS/ IODINE
RADIOISOTOPES/ METHODS/
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INSULIN, pharmacodynamics/ INSULIN,
therapeutic use/ *INSULIN ANTIBODIES/
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*DEHYDROEPIANDROSTERONE, blood/
DEPRESSION, CHEMICAL/
DEXAMETHASONE, administration & dosage/
DEXAMETHASONE, pharmacodynamics/
FEMALE/ HUMAN/ HYDROCORTISONE,
blood/ MALE/ METHODS/
*RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE/ SERUM GLOBULINS/
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physiology/ INJECTIONS, INTRAVENOUS/
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METHODS/ RADIOIMMUNOASSAY

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ESTRUS/ *FSH, blood/ IMMUNE SERUMS/
IODINE RADIOISOTOPES/ METHODS/
PITUITARY GLAND, analysis/ PROLACTIN/
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*SWINE, physiology

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FEMALE/ GEL FILTRATION/ HUMAN/
MALE/ METHODS/ RADIOIMMUNOASSAY/

SEX FACTORS/ *THYROTROPIN RELEASING
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RELEASING HORMONE, blood/
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HYDROCORTISONE/ IMMUNE SERUMS/
METHODS/ RADIOIMMUNOASSAY/
TRANSCORTIN/ TRITIUM

A radioimmunoassay for measurement of
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SERUMS/ INFANT, NEWBORN/ IODINE
RADIOISOTOPES/ MALE/ METHODS/
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RADIOIMMUNOASSAY/ SERUM ALBUMIN,
metabolism/ THYROGLOBULIN, metabolism/
THYRONINE, blood/ THYROXINE, blood/
THYROXINE-BINDING PROTEIN, metabolism/
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UMBILICAL CORD

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METHODS/ *RADIOIMMUNOASSAY

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purification/ FEMALE/ GOATS, immunology/
HUMAN/ HYPERTHYROIDISM, blood/
HYPOTHYROIDISM, blood/ IODINE
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RABBITS, immunology/
RADIOIMMUNOASSAY/ SERUM ALBUMIN,
metabolism/ THYROID GLAND, physiology/
THYROXINE-BINDING PROTEIN, antagonists
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RELEASING HORMONE, analysis/ MALE/
METHODS/ *PEPTIDE PEPTIDOHYDROLASES,
analysis/ RADIOIMMUNOASSAY/ RATS/
REPRODUCTION/ SEX FACTORS

Progesterone concentration in the peripheral plasma of
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COMPETITIVE/ CHROMATOGRAPHY/
*ESTRUS/ FEMALE/ *HORSES, physiology/
METHODS/ PREGNANCY/ *PREGNANCY,
ANIMAL/ *PROGESTERONE, blood/ PROTEIN
BINDING/ RADIOIMMUNOASSAY/
TRANSCORTIN/ TRITIUM

A simultaneous measurement of plasma aldosterone
and deoxycorticosterone by radioimmunoassay.
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VARIANCE/ CATTLE/ CHROMATOGRAPHY,
PAPER/ COMPARATIVE STUDY/
*CORTICOSTERONE, blood/ CROSS
REACTIONS/ EVALUATION STUDIES/
FEMALE/ GEL FILTRATION/ HUMAN/
MALE/ MENSTRUATION/ METHODS/
MICROCHEMISTRY/ PROGESTERONE, blood/
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METHOD SECTION

BOVINE/ STRUCTURE-ACTIVITY RELATIONSHIP/ TIME FACTORS/ TRITIUM

A quantitative method for the estimation of testosterone and progesterone in human plasma. Using the gas chromatograph-mass spectrometer combination with single ion monitoring. Dehennin L, et al. *J Steroid Biochem* 5:81-6, Feb 74

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MATHEMATICS/ METHODS/
MICROCHEMISTRY/ *PROGESTERONE, blood/
RADIOIMMUNOASSAY/
SPECTROPHOTOMETRY, INFRARED/
SPECTRUM ANALYSIS, MASS/
STRUCTURE-ACTIVITY RELATIONSHIP/
*TESTOSTERONE, blood/ TIME FACTORS

Assay of testosterone, progesterone and 17alpha-hydroxyprogesterone in human plasma by radioimmunoassay after separation on hydroxyalkoxypropyl sephadex. Jänne O, et al. *J Steroid Biochem* 5:155-62, Apr 74

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EXCHANGE/ COMPARATIVE STUDY/
CONTRACEPTIVES, ORAL/ CROSS
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FEMALE/ HUMAN/
*HYDROXYPROGESTERONE, blood/ MALE/
MENSTRUATION/ METHODS/
*PROGESTERONE, blood/ PROTEIN BINDING/
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RADIOIMMUNOASSAY/ SERUM ALBUMIN,
BOVINE/ SPECTROPHOTOMETRY,
ULTRAVIOLET/ STRUCTURE-ACTIVITY
RELATIONSHIP/ SUCCINATES/
*TESTOSTERONE, blood/ TIME FACTORS/
TRITIUM

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ANALYSIS OF VARIANCE/
CHROMATOGRAPHY, ION EXCHANGE/
*CIRCADIAN RHYTHM/ COMPARATIVE
STUDY/ *ESTRADIOL, blood/ *ESTRONE,
blood/ EVALUATION STUDIES/ HUMAN/
17-KETOSTEROIDS, urine/ MALE/ METHODS/
RABBITS, immunology/
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blood/ TIME FACTORS/ TRITIUM

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metabolism/ ALDOSTERONE, urine/
CHROMATOGRAPHY/ CHROMATOGRAPHY,
PAPER/ COMPARATIVE STUDY/ DIET/
EVALUATION STUDIES/ EXERTION, drug
effects/ FEMALE/ GEL FILTRATION/
HUMAN/ MALE/ MENSTRUATION/
METHODS/ OVULATION/ POTASSIUM,
pharmacodynamics/ RADIOIMMUNOASSAY/
SHEEP, immunology/ SILICA/ SODIUM,
pharmacodynamics/ TIME FACTORS/ TRITIUM

T3 toxicosis. Graber AL.

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ADOLESCENCE/ ADULT/ FEMALE/ HUMAN/
HYPERTHYROIDISM, blood/
*HYPERTHYROIDISM, diagnosis/ MALE/
METHODS/ PROTEIN-BOUND IODINE TEST/
RADIOIMMUNOASSAY/ RADIOISOTOPE
SCANNING/ *TRIIODOTHYRONINE, blood

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DISEASE, drug therapy/ ADRENALECTOMY/
CORTICOTROPIN, analysis/ CORTICOTROPIN,
antagonists & inhibitors/ CORTICOTROPIN,
blood/ CORTICOTROPIN, isolation &
purification/ *CORTICOTROPIN, secretion/
CUSHING'S SYNDROME, blood/ CUSHING'S
SYNDROME, drug therapy/ HUMAN/ LYSINE,

administration & dosage/ LYSINE,
pharmacodynamics/ METHODS/ METYRAPONE,
diagnostic use/ PERFUSION/
RADIOIMMUNOASSAY/ SECRETORY RATE,
drug effects/ SILICA/ STIMULATION,
CHEMICAL/ TIME FACTORS/ VASOPRESSIN,
administration & dosage/ VASOPRESSIN,
pharmacodynamics

Use of ion-exchange resins for removing prostaglandins from human urine prior to radioimmunoassay. Fretland DJ.

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CHROMATOGRAPHY, THIN LAYER/ HUMAN/
*ION EXCHANGE RESINS/ METHODS/
*PROSTAGLANDINS, urine/
RADIOIMMUNOASSAY/ TRITIUM/ URINE,
analysis

Radioimmunoassay for prednisone. Colburn WA. *Steroids* 24:95-106, Jul 74

CATTLE/ COMPARATIVE STUDY/ CROSS
REACTIONS/ DOGS/ EVALUATION STUDIES/
HUMAN/ MALE/ METHODS/
MICROCHEMISTRY/ PREDNISOLONE, blood/
*PREDNISONE, blood/ PREDNISONE,
metabolism/ PROTEIN BINDING/ RABBITS,
immunology/ RADIOIMMUNOASSAY/ SERUM
ALBUMIN, BOVINE/ SPECIES SPECIFICITY/
STRUCTURE-ACTIVITY RELATIONSHIP/
SUCCINATES/ TIME FACTORS/ TRITIUM

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CHROMATOGRAPHY, PAPER/ COMPARATIVE
STUDY/ EVALUATION STUDIES/ METHODS/
MICROCHEMISTRY/ RABBITS, immunology/
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analysis/ TRITIUM

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ANTIBODIES/ CELLULOSE/ ENGLISH
ABSTRACT/ HUMAN/ METHODS/
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*PROSTAGLANDINS, analysis/
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ABSTRACT/ HUMAN/ MALE/ METHODS/
RADIOIMMUNOASSAY/ SAMPLING STUDIES/
*TESTOSTERONE, blood/ TIME FACTORS

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ABORTION, etiology/ BLOOD TRANSFUSION/
CLINICAL RESEARCH/ DRUG SYNERGISM/
HEMODYNAMICS/ HUMAN/ INDICATOR
DILUTION TECHNIQS/ ISOPROTERENOL/
*KIDNEY, physiopathology/ KIDNEY CORTEX,
blood supply/ KIDNEY CORTEX NECROSIS,
etiology/ *KIDNEY FAILURE, ACUTE,
physiopathology/ METHODS/ NEPHRITIS,
INTERSTITIAL, etiology/ POISONING/
POSTOPERATIVE COMPLICATIONS/
POTASSIUM ISOTOPES/
RADIOIMMUNOASSAY/ RENIN, blood/
*RENIN, secretion

[Radioimmunoassay of human plasma parathormone]

METHOD SECTION SECRETORY RATE

Guerlis J.
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CATTLE/ CHARCOAL/ DEXTRAN/ ENGLISH
ABSTRACT/ FEMALE/ HUMAN/ IMMUNE
SERUMS/ IODINE RADIOISOTOPES/ MALE/
METHODS/ *PARATHYROID HORMONE,
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ENGLISH ABSTRACT/ FEMALE/ GLUCOSE,
pharmacodynamics/ HISTIDINE/
HYDROGEN-ION CONCENTRATION/ IN
VITRO/ INSULIN, biosynthesis/ *INSULIN,
secretion/ ISLANDS OF LANGERHANS,
metabolism/ *ISLANDS OF LANGERHANS,
secretion/ METHODS/ RADIOIMMUNOASSAY/
RATS/ TIME FACTORS/ *TISSUE CULTURE

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*ADENOMA, blood/ ADENOMA, complications/
ADULT/ AGED/ ENGLISH ABSTRACT/
FEMALE/ HUMAN/
HYPERPARATHYROIDISM, complications/
METHODS/ MIDDLE AGE/ *PARATHYROID
HORMONE, blood/ *PARATHYROID
NEOPLASMS, blood/ PARATHYROID
NEOPLASMS, complications/
RADIOIMMUNOASSAY

[Comparing experiments of human placental lactogen
in the serum by different radioimmunologic methods
(author's transl)] Schmitt R, et al.

Med Klin 69:906-14, 17 May 74 (Eng. Abstr.) (Ger)
ANTIGEN-ANTIBODY COMPLEX/
COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ FEMALE/ GESTATIONAL AGE/
HUMAN/ IMMUNE SERUMS/ IODINE
RADIOISOTOPES/ METHODS/ PLACENTA
DISORDERS, blood/ PLACENTA DISORDERS,
diagnosis/ *PLACENTAL LACTOGEN, blood/
PREGNANCY/ PREGNANCY IN DIABETES,
blood/ PREGNANCY TOXEMIAS, blood/
*RADIOIMMUNOASSAY/ TWINS

[Experimental determination of the operative
parameters of radioimmunological assay of TSH]
Dotti C, et al.

Ateneo Parmense [Acta Biomed] 44:291-305, Sept 73
(Eng. Abstr.) (Ita)
ENGLISH ABSTRACT/ HUMAN/ METHODS/
*RADIOIMMUNOASSAY/ *THYROTROPIN,
analysis

[Radioimmunological determination of plasma 17-OH
progesterone] Jasonni VM, et al.

Riv Ital Ginecol 55:87-79, Jan 74 (Eng. Abstr.) (Ita)
ENGLISH ABSTRACT/ HUMAN/
HYDROXYPROGESTERONE, analysis/
*HYDROXYPROGESTERONE, blood/
METHODS/ *RADIOIMMUNOASSAY

[Clinical experience with the double antibody TSH Kit]
Takeda Y, et al.

Clin Endocrinol (Tokyo) 22:313-8, Feb 74 (Jap)
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immunology/ HUMAN/ IMMUNE SERUMS/
MALE/ METHODS/ RABBITS, immunology/
RADIOIMMUNOASSAY/ *THYROTROPIN,
blood

[Experimental and clinical examinations of HTSH Kit
I] Yoshie Y, et al.

Clin Endocrinol (Tokyo) 22:307-12, Feb 74 (Jap)
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IMMUNE SERUMS/ MALE/ METHODS/
RABBITS, immunology/
RADIOIMMUNOASSAY/ *THYROTROPIN,
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[Radioimmunoassay fractionation of urinary and
amniotic estrogens into 3 components] Makino T, et

al.
Folia Endocrinol (Roma) 50:788-96, Apr 74 (Eng.
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*AMNIOTIC FLUID, analysis/ ENGLISH
ABSTRACT/ *ESTRADIOL, analysis/
ESTRADIOL, urine/ *ESTRIOL, analysis/
ESTRIOL, urine/ *ESTRONE, analysis/
ESTRONE, urine/ FEMALE/ HUMAN/
HYDROLYSIS/ MALE/ MENSTRUATION/
METHODS/ *RADIOIMMUNOASSAY/ TIME
FACTORS/ TRITIUM

INSTRUMENTATION

[Quality control applied to commercial kits for the
radioimmunoassay of insulin] Quesada T, et al.
Rev Clin Esp 132:211-8, 15 Feb 74 (Eng. Abstr.) (Spa)
COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ EVALUATION STUDIES/
*INSULIN, analysis/ METHODS/ QUALITY
CONTROL/ *RADIOIMMUNOASSAY,
instrumentation

RADIOLIGAND ASSAY

Preliminary studies in plasma and cerebrospinal fluid
cortisol in children with different diseases.

Haberfellner H, et al. Clin Chim Acta 54:5-10, 15 Jul 74
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PRESCHOOL/ CHROMATOGRAPHY, THIN
LAYER/ COMPARATIVE STUDY/
CONVULSIONS, metabolism/ ENCEPHALITIS,
metabolism/ EVALUATION STUDIES/
FEMALE/ HUMAN/ *HYDROCORTISONE,
analysis/ HYDROCORTISONE, blood/
HYDROCORTISONE, cerebrospinal fluid/
HYDROCORTISONE, metabolism/ INFANT/
MALE/ MENINGITIS, metabolism/ MENTAL
RETARDATION, metabolism/ METHODS/
MUMPS, metabolism/ PROTEIN BINDING/
RADIOLIGAND ASSAY/ SPASM, metabolism/
SYNDROME/ TRANCORTIN/ TRITIUM

Simultaneous determination of cortisol, deoxycortisol
and corticosterone in plasma and urine by competitive
protein binding assay. Response of normal subjects to
ACTH and metyrapone. Kolanowski J.

J Steroid Biochem 5:55-64, Feb 74
ADMINISTRATION, ORAL/ ADULT/
CHROMATOGRAPHY, THIN LAYER/
COMPARATIVE STUDY/ CORTICOSTERONE,
blood/ *CORTICOSTERONE, metabolism/
CORTICOSTERONE, urine/ CORTICOTROPIN,
administration & dosage/ *CORTICOTROPIN,
pharmacodynamics/ EVALUATION STUDIES/
HUMAN/ HYDROCORTISONE, blood/
*HYDROCORTISONE, metabolism/
HYDROCORTISONE, urine/ INJECTIONS,
INTRAVENOUS/ METHODS/ METYRAPONE,
administration & dosage/ *METYRAPONE,
pharmacodynamics/ MICROCHEMISTRY/
RADIOLIGAND ASSAY/ TIME FACTORS/
TRITIUM

Physiological variations in plasma testosterone in
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competitive protein-binding technique. Thomas MJ,
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PAPER/ COMPARATIVE STUDY/
EVALUATION STUDIES/ FEMALE/ HUMAN/
HYDROGEN-ION CONCENTRATION/ MALE/
METHODS/ MICROCHEMISTRY/ PROTEIN
BINDING/ RADIOLIGAND ASSAY/ SILICA/
STRUCTURE-ACTIVITY RELATIONSHIP/
*TESTOSTERONE, blood/ TIME FACTORS/
TRITIUM

SECRETORY RATE

DRUG EFFECTS

Spontaneous and stimulated secretion of
QUSO-extractable immunoassayable ACTH in man.
Voigt KH, et al. Klin Wochenschr 52:516-21, 1 Jun 74
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CORTICOTROPIN, analysis/ CORTICOTROPIN,
antagonists & inhibitors/ CORTICOTROPIN,

blood/ CORTICOTROPIN, isolation & purification/ *CORTICOTROPIN, secretion/ CUSHING'S SYNDROME, blood/ CUSHING'S SYNDROME, drug therapy/ HUMAN/ LYSINE, administration & dosage/ LYSINE, pharmacodynamics/ METHODS/ METYRAPONE, diagnostic use/ PERFUSION/ RADIOIMMUNOASSAY/ SECRETORY RATE, drug effects/ SILICA/ STIMULATION, CHEMICAL/ TIME FACTORS/ VASOPRESSIN, administration & dosage/ VASOPRESSIN, pharmacodynamics

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Estimation of "total-oestrogens". Evaluation of a fluorimetric method. Fahmy N, et al. *Acta Obstet Gynecol Scand [Suppl]* 29:83-8, 1974
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Standardisation of urinary estriol determinations during pregnancy. Peace SM, et al.

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AUTOANALYSIS/ CHROMATOGRAPHY, ION EXCHANGE/ COMPARATIVE STUDY/ DRUG STABILITY/ *ESTRIOL, urine/ EVALUATION STUDIES/ FEMALE/ HUMAN/ METHODS/ *PREGNANCY/ SODIUM HYDROXIDE/ SOLUBILITY/ SPECTROMETRY, FLUORESCENCE/ TIME FACTORS

Procedure for the histochemical demonstration of noradrenaline and 5-hydroxytryptamine in the central nervous system using the formaldehyde induced fluorescence method. Laszlo I.

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ANIMAL EXPERIMENTS/ *CEREBRAL VENTRICLES, analysis/ FEMALE/ FORMALDEHYDE/ HISTOCYTOCHEMISTRY/ HISTOLOGICAL TECHNIQUES/ MALE/ METHODS/ MICROSCOPY, FLUORESCENCE/ *NOREPINEPHRINE, analysis/ RABBITS/ *SEROTONIN, analysis/ SPECTROMETRY, FLUORESCENCE

SPECTROPHOTOMETRY, INFRARED

A quantitative method for the estimation of testosterone and progesterone in human plasma. Using the gas chromatograph-mass spectrometer combination with single ion monitoring. Dehennin L, et al. *J Steroid Biochem* 5:81-6, Feb 74

ANALYSIS OF VARIANCE/ CHROMATOGRAPHY, GAS/ COMPARATIVE STUDY/ EVALUATION STUDIES/ HUMAN/ MATHEMATICS/ METHODS/ MICROCHEMISTRY/ *PROGESTERONE, blood/ RADIOIMMUNOASSAY/ SPECTROPHOTOMETRY, INFRARED/ SPECTRUM ANALYSIS, MASS/ STRUCTURE-ACTIVITY RELATIONSHIP/ *TESTOSTERONE, blood/ TIME FACTORS

SPECTROPHOTOMETRY,

ULTRAVIOLET

Assay of testosterone, progesterone and 17alpha-hydroxyprogesterone in human plasma by radioimmunoassay after separation on hydroxyalkoxypropyl sephadex. Jänne O, et al.

J Steroid Biochem 5:155-62, Apr 74

ANALYSIS OF VARIANCE/ BLOOD PROTEINS/ CHROMATOGRAPHY, ION EXCHANGE/ COMPARATIVE STUDY/ CONTRACEPTIVES, ORAL/ CROSS REACTIONS/ EVALUATION STUDIES/ FEMALE/ HUMAN/ *HYDROXYPROGESTERONE, blood/ MALE/ MENSTRUATION/ METHODS/ *PROGESTERONE, blood/ PROTEIN BINDING/ RABBITS, immunology/

RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ SPECTROPHOTOMETRY, ULTRAVIOLET/ STRUCTURE-ACTIVITY RELATIONSHIP/ SUCCINATES/ *TESTOSTERONE, blood/ TIME FACTORS/ TRITIUM

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SPECTRUM ANALYSIS

[Steroid hormones of rat adrenal glands: analysis of 18-hydroxycorticosteroids by gas-liquid chromatography, mass spectrum analysis and mass fragmentation] Prost M, et al.

J Steroid Biochem 5:133-44, Apr 74 (Eng. Abstr.) (Fre)

*ADRENAL GLANDS, analysis/ ADRENAL GLANDS, growth & development/ ADRENAL GLANDS, metabolism/ AGING/ ANIMAL EXPERIMENTS/ ANIMALS, NEWBORN/ CHROMATOGRAPHY, GAS/ COMPARATIVE STUDY/ CORTICOSTERONE, analysis/ CORTICOSTERONE, metabolism/ ENGLISH ABSTRACT/ EVALUATION STUDIES/ *HYDROXYCORTICOSTEROIDS, analysis/ METHODS/ SITOSTEROLS, analysis/ SITOSTEROLS, metabolism/ SPECTRUM ANALYSIS/ SPECTRUM ANALYSIS, MASS/ TIME FACTORS

SPECTRUM ANALYSIS, MASS

Characterization of prostaglandins by combined gas-liquid chromatography and chemical ionization mass spectrometry. Oswald EO, et al.

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CHEMISTRY/ *CHROMATOGRAPHY, GAS/ ESTERS, analysis/ FLUOROACETATES, analysis/ HUMAN/ IONS/ LUNG, metabolism/ METHODS/ METHYLATION/ *PROSTAGLANDINS, analysis/ PROSTAGLANDINS, biosynthesis/ *SPECTRUM ANALYSIS, MASS/ STRUCTURE-ACTIVITY RELATIONSHIP

Improvements in quantitative gas phase analysis of catecholamines in the picomole range by electron-capture detection and mass fragmentography of their

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A quantitative method for the estimation of testosterone and progesterone in human plasma. Using the gas chromatograph-mass spectrometer combination with single ion monitoring. Dehennin L,

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MATHEMATICS/ METHODS/
MICROCHEMISTRY/ *PROGESTERONE, blood/
RADIOIMMUNOASSAY/
SPECTROPHOTOMETRY, INFRARED/
SPECTRUM ANALYSIS, MASS/
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*TESTOSTERONE, blood/ TIME FACTORS

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COMPARATIVE STUDY/ *ESTRIOL, urine/
ESTRONE, urine/ EVALUATION STUDIES/
FEMALE/ HUMAN/ HYDROXYSTERIODS,
urine/ METHODS/ *PREGNANCY/ SILICA/
SPECTRUM ANALYSIS, MASS/ TIME
FACTORS/ TRITIUM

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18-hydroxycorticosteroids by gas-liquid
chromatography, mass spectrum analysis and mass
fragmentation] Prost M, et al.

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*ADRENAL GLANDS, analysis/ ADRENAL
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CHROMATOGRAPHY, GAS/ COMPARATIVE
STUDY/ CORTICOSTERONE, analysis/
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& dosage/ GONADOTROPINS, CHORIONIC,
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